BcePred Prediction Server

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

seqname=
Seq=MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHGEVFVTE
DGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKRRILAMAQPDADGNR
PDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGELKTKPTQHSVAALRSIGITPDALILR
CDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREELDAFVVRRLNLPFRDVDWTEWDDLLRRVHEP
HETVRIALVGKYVELSDAYLSVAEALRAGGFKHRAKVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEG
KIGAIAYARARGLPVLGLCLGLQCIVIEAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSY
PAVLEPDSVVAQAYQTTQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHP
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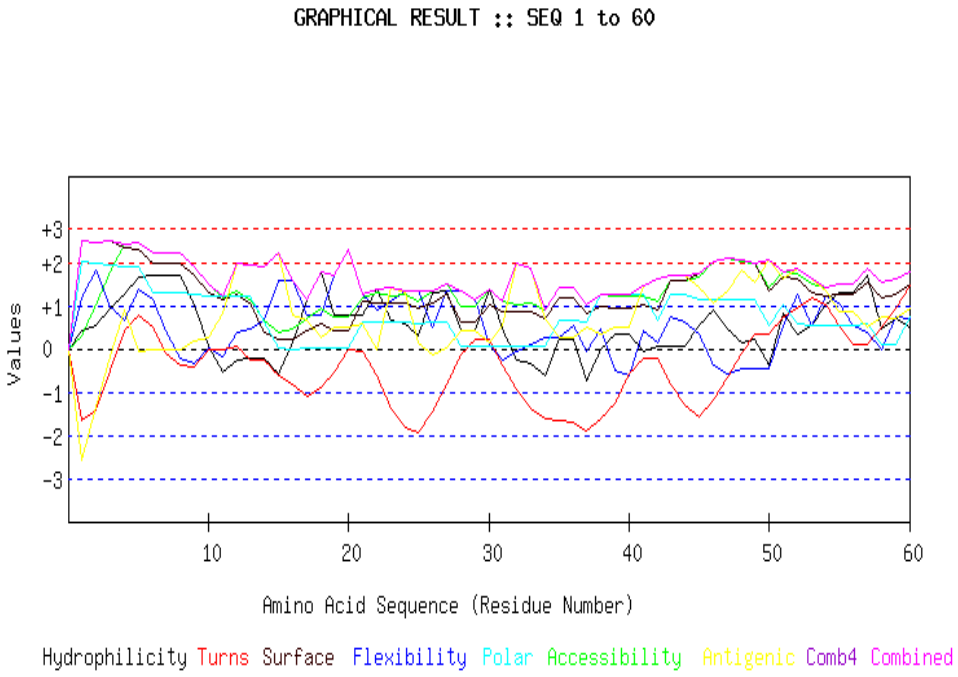
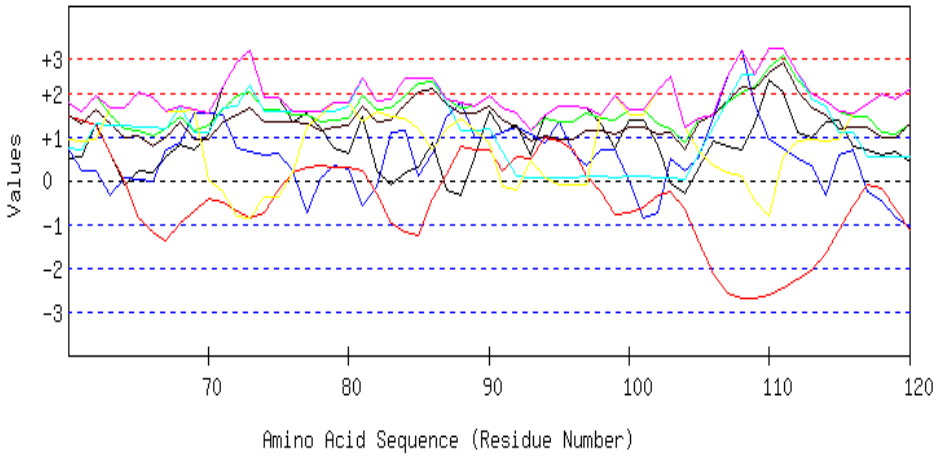
Length=586

GRAPHICAL RESULT

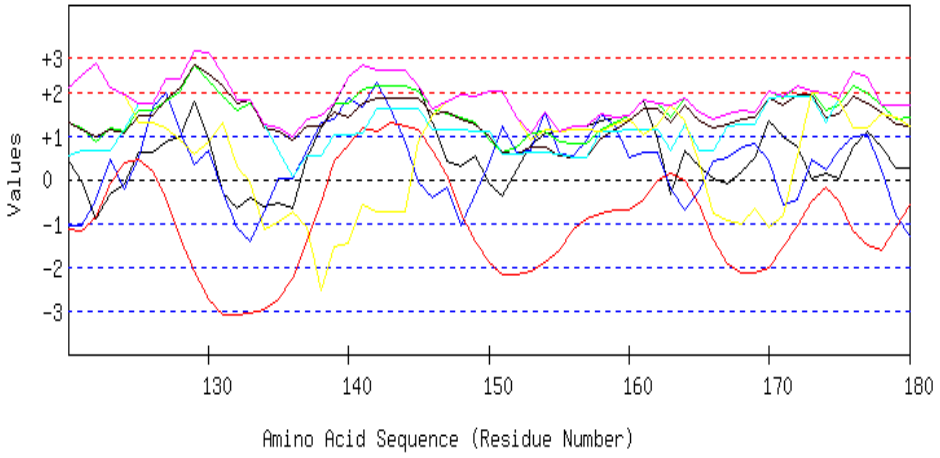


GRAPHICAL RESULT :: SEQ 61 to 120



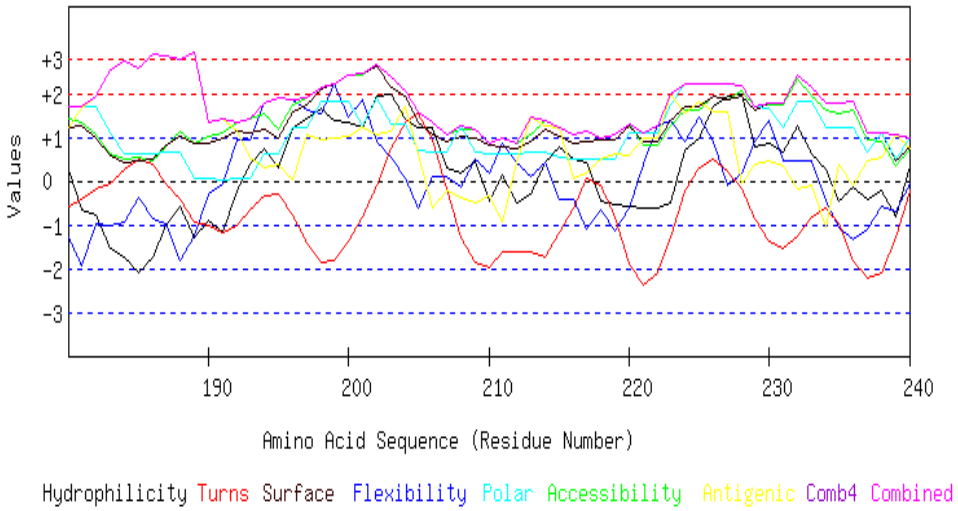
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180

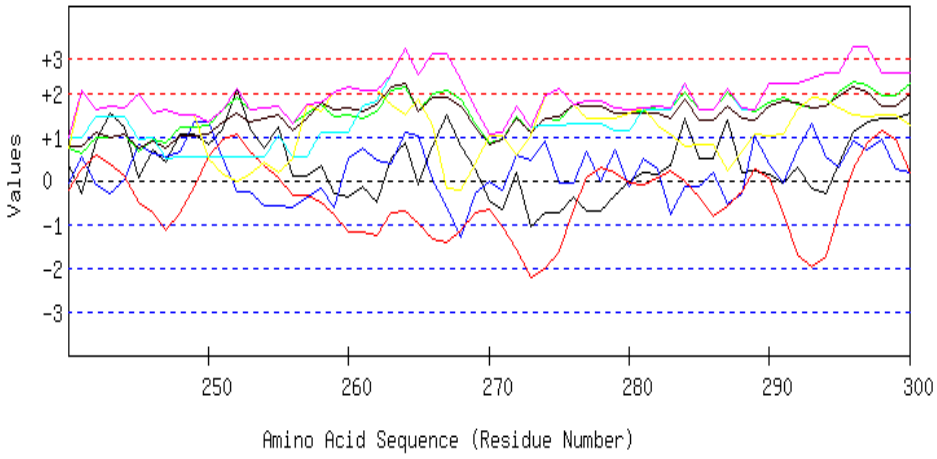


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240

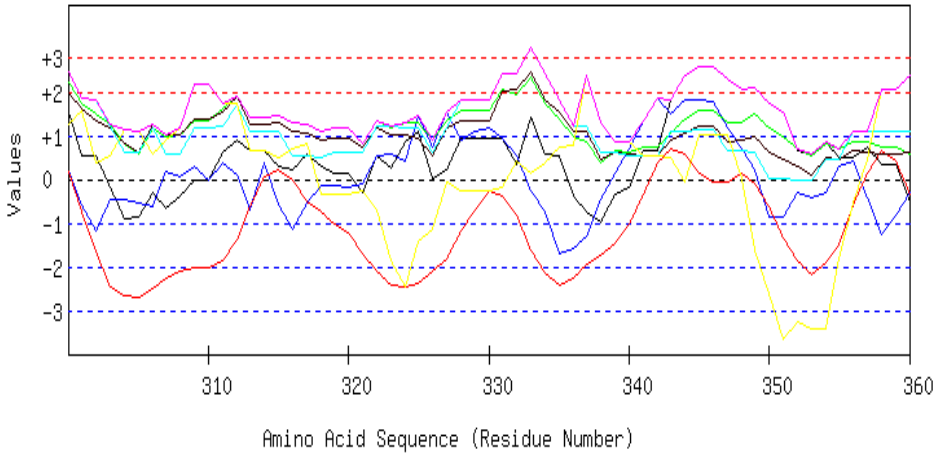


GRAPHICAL RESULT :: SEQ 241 to 300



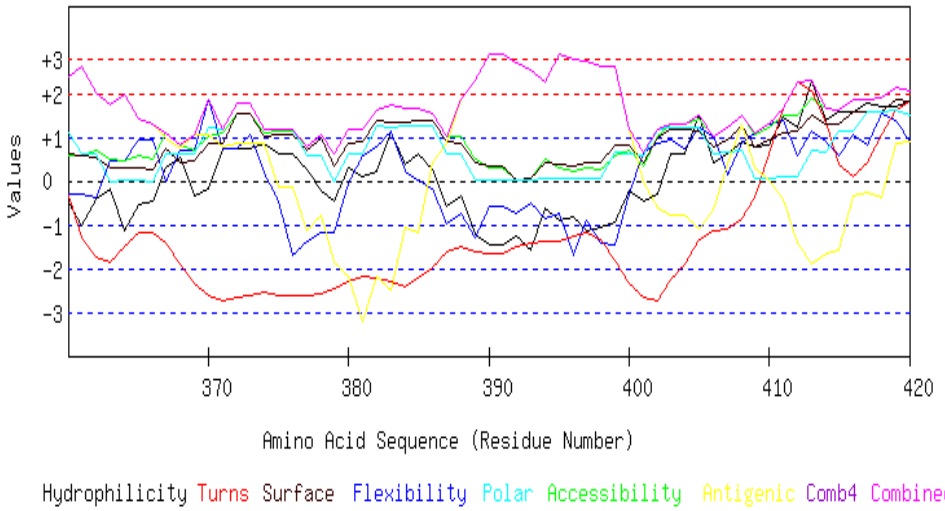
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360

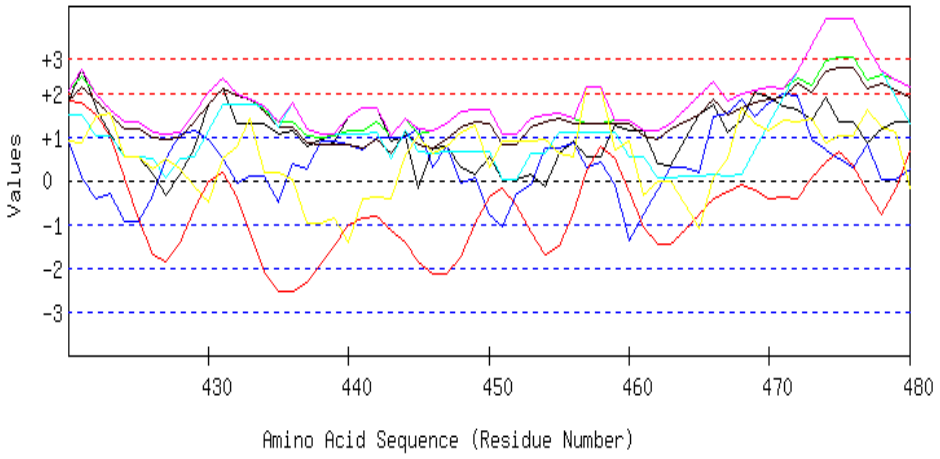


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420

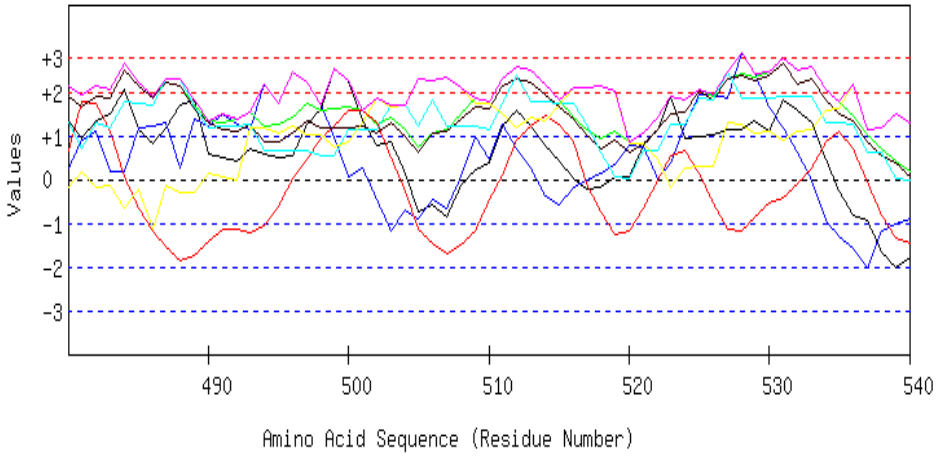


GRAPHICAL RESULT :: SEQ 421 to 480



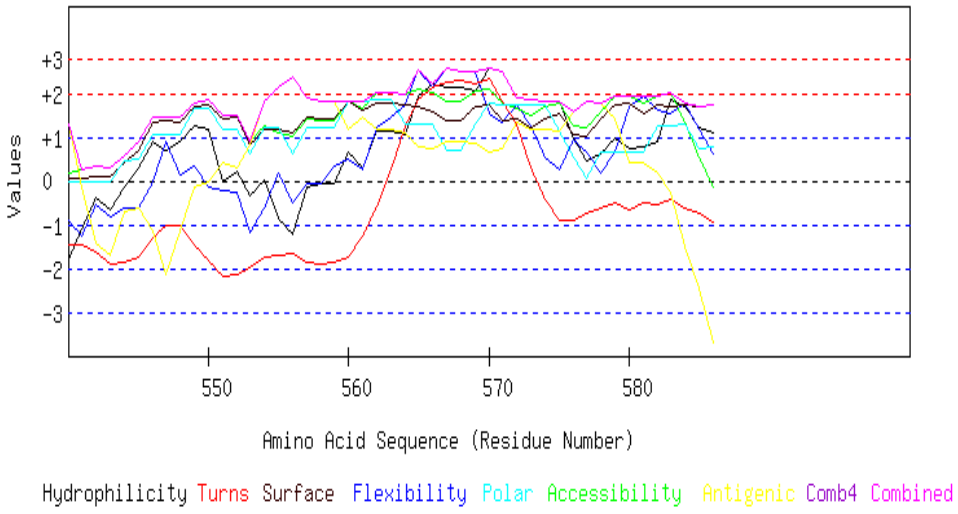
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



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

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VIPHITDEIKRRILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGRED
VFFLHVSLVPYLAPSGELKTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMC
DVDIDGVISTPDAPSIYDIPKVLHREELDAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHE
TVRIALVGKYVELSDAYLSVAEALRAGGFKHRAKVEICWVASDGCETTSGAAAALGDVHG
VLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVIEAARSVGLTNANSAEFDPD
TPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQTTQVSERHRHRYEV
NNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPTRPHPLFVA
FVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG

Length=586

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 M	0.414	1.197	0.300	-1.675	2.488	2.006	-2.572	2.488	-2.572	0.308
2 R	0.547	1.802	1.001	-1.401	2.442	1.965	-1.342	2.442	-1.401	0.716
3 K	0.926	0.988	1.786	-0.483	2.497	1.948	-0.169	2.497	-0.483	1.070
4 H	1.255	0.648	2.440	0.411	2.333	1.908	0.882	2.440	0.411	1.411
5 P	1.653	1.389	2.449	0.796	2.287	1.890	-0.073	2.449	-0.073	1.485
6 Q	1.717	1.121	2.216	0.517	1.968	1.286	-0.031	2.216	-0.031	1.256
7 T	1.717	0.425	2.216	-0.098	1.968	1.286	-0.031	2.216	-0.098	1.069
8 A	1.717	-0.240	2.216	-0.398	1.968	1.286	-0.031	2.216	-0.398	0.931
9 T	1.002	-0.336	1.889	-0.423	1.704	1.272	0.184	1.889	-0.423	0.756
10 K	0.041	0.029	1.496	-0.037	1.285	1.234	0.272	1.496	-0.037	0.617
11 H	-0.521	-0.176	1.178	-0.012	1.121	1.215	0.820	1.215	-0.521	0.518
12 L	-0.243	0.361	1.328	0.070	1.276	1.236	1.990	1.990	-0.243	0.860
13 F	-0.212	0.469	1.122	-0.259	1.075	1.216	1.949	1.949	-0.259	0.766
14 V	-0.212	0.644	0.664	-0.267	0.392	0.621	1.884	1.884	-0.267	0.532
15 S	-0.578	1.595	0.384	-0.602	0.209	0.003	2.206	2.206	-0.602	0.459
16 G	0.136	1.595	0.468	-0.812	0.200	-0.003	0.761	1.595	-0.812	0.335
17 G	1.129	0.764	0.683	-1.094	0.401	0.013	0.669	1.129	-1.094	0.366
18 V	1.774	0.764	0.954	-0.895	0.565	0.032	0.240	1.774	-0.895	0.490
19 A	0.781	1.692	0.720	-0.528	0.419	0.017	0.516	1.692	-0.528	0.517
20 S	0.781	2.319	0.720	-0.007	0.419	0.017	0.516	2.319	-0.007	0.681
21 S	0.781	1.259	1.178	-0.070	1.103	0.612	0.580	1.259	-0.070	0.777
22 L	1.375	0.894	1.290	-0.624	1.066	0.610	-0.008	1.375	-0.624	0.658
23 G	0.661	1.099	1.206	-1.373	1.075	0.615	1.437	1.437	-1.373	0.674
24 K	0.579	1.327	1.253	-1.802	1.075	0.615	1.318	1.327	-1.802	0.624
25 G	0.300	1.351	1.103	-1.930	0.920	0.595	0.148	1.351	-1.930	0.355
26 L	1.293	0.519	1.337	-1.447	1.066	0.610	-0.127	1.337	-1.447	0.465
27 T	1.344	1.351	1.496	-0.809	1.267	0.630	0.032	1.496	-0.809	0.759
28 A	0.402	1.351	0.963	-0.135	0.638	0.041	0.402	1.351	-0.135	0.523
29 S	0.402	1.147	0.963	0.236	0.638	0.041	0.402	1.147	0.041	0.547
30 S	1.363	0.087	1.375	0.212	1.002	0.078	0.131	1.375	0.078	0.607
31 L	0.452	-0.278	1.094	-0.362	0.856	0.063	0.525	1.094	-0.362	0.336
32 G	-0.262	-0.074	1.010	-0.947	0.866	0.069	1.970	1.970	-0.947	0.376
33 Q	-0.344	0.113	1.057	-1.381	0.866	0.068	1.851	1.851	-1.381	0.318
34 L	-0.623	0.249	0.907	-1.630	0.711	0.048	0.681	0.907	-1.630	0.049
35 L	0.225	0.249	1.421	-1.653	1.175	0.668	0.245	1.421	-1.653	0.333
36 T	0.225	0.544	1.421	-1.704	1.175	0.668	0.245	1.421	-1.704	0.368
37 A	-0.736	-0.044	1.010	-1.881	0.811	0.631	0.517	1.010	-1.881	0.044
38 R	-0.022	0.447	1.253	-1.627	0.975	1.245	0.349	1.253	-1.627	0.374
39 G	0.326	-0.480	1.216	-1.261	0.957	1.241	0.503	1.241	-1.261	0.357
40 L	0.326	-0.617	1.216	-0.564	0.957	1.241	0.503	1.241	-0.617	0.437
41 H	-0.073	0.419	1.206	-0.227	1.002	1.258	1.458	1.458	-0.227	0.721
42 V	0.041	0.125	1.103	-0.207	0.902	0.676	1.622	1.622	-0.207	0.609
43 T	0.041	0.760	1.561	-0.824	1.586	1.271	1.687	1.687	-0.824	0.869
44 M	0.041	0.628	1.561	-1.306	1.586	1.271	1.687	1.687	-1.306	0.781
45 Q	0.541	0.335	1.674	-1.591	1.731	1.140	1.410	1.731	-1.591	0.749
46 K	0.907	-0.360	2.038	-1.197	2.014	1.157	1.042	2.038	-1.197	0.800
47 L	0.459	-0.583	2.094	-0.642	2.096	1.157	1.333	2.096	-0.642	0.845
48 D	0.142	-0.474	2.019	-0.108	2.060	1.145	1.823	2.060	-0.474	0.944
49 P	0.206	-0.474	1.991	0.326	1.996	1.143	1.547	1.996	-0.474	0.962
50 Y	-0.389	-0.474	1.421	0.354	1.349	0.550	2.071	2.071	-0.474	0.697
51 L	0.825	0.560	1.776	0.729	1.658	1.034	1.627	1.776	0.560	1.173
52 N	0.326	1.255	1.748	0.946	1.613	0.564	1.856	1.856	0.326	1.187

53 V	0.553	0.532	1.496	1.179	1.294	0.545	1.636	1.636	0.532	1.034
54 D	1.002	1.237	1.440	1.033	1.212	0.545	1.345	1.440	0.545	1.116
55 P	1.318	1.056	1.515	0.549	1.248	0.557	0.854	1.515	0.549	1.014
56 G	1.318	0.523	1.515	0.090	1.248	0.557	0.854	1.515	0.090	0.872
57 T	1.685	0.387	1.879	0.114	1.531	0.574	0.486	1.879	0.114	0.951
58 M	0.471	-0.013	1.543	0.506	1.166	0.090	0.746	1.543	-0.013	0.644
59 N	0.718	0.728	1.627	0.955	1.267	0.113	0.689	1.627	0.113	0.871
60 P	0.490	0.694	1.795	1.471	1.485	0.733	0.956	1.795	0.490	1.089
61 F	0.522	0.239	1.589	1.363	1.285	0.713	0.916	1.589	0.239	0.947
62 Q	1.280	0.239	1.926	1.280	1.604	1.295	0.945	1.926	0.239	1.224
63 H	0.604	-0.348	1.505	0.610	1.285	1.256	1.646	1.646	-0.348	0.937
64 G	-0.111	0.053	1.197	-0.033	0.966	1.242	1.677	1.677	-0.111	0.713
65 E	0.237	0.001	1.141	-0.848	1.002	1.239	2.015	2.015	-0.848	0.684
66 V	0.187	-0.036	1.010	-1.181	0.784	1.217	1.893	1.893	-1.181	0.553
67 F	0.547	0.688	1.178	-1.398	0.975	1.196	1.599	1.599	-1.398	0.684
68 V	0.819	0.862	1.459	-0.982	1.339	1.685	1.590	1.685	-0.982	0.967
69 T	0.686	1.533	1.122	-0.703	0.929	1.086	1.616	1.616	-0.703	0.896
70 E	1.053	1.533	1.244	-0.405	0.938	1.084	0.017	1.533	-0.405	0.781
71 D	2.128	1.497	1.636	-0.508	1.349	1.679	-0.260	2.128	-0.508	1.074
72 G	2.690	0.754	1.954	-0.689	1.513	1.698	-0.808	2.690	-0.808	1.016
73 A	2.994	0.666	2.029	-0.869	1.677	2.167	-0.858	2.994	-0.869	1.115
74 E	1.919	0.570	1.617	-0.726	1.321	1.573	-0.397	1.919	-0.726	0.840
75 T	1.919	0.622	1.617	-0.220	1.321	1.573	-0.397	1.919	-0.397	0.919
76 D	1.325	0.221	1.505	0.195	1.358	1.574	0.192	1.574	0.192	0.910
77 L	1.552	-0.725	1.496	0.315	1.312	1.574	1.202	1.574	-0.725	0.961
78 D	1.192	0.055	1.328	0.330	1.121	1.594	1.496	1.594	0.055	1.017
79 V	0.743	0.329	1.384	0.303	1.203	1.594	1.787	1.787	0.303	1.049
80 G	0.604	0.251	1.440	0.293	1.248	1.705	1.770	1.770	0.251	1.044
81 H	1.451	-0.581	1.954	0.232	1.713	2.324	1.334	2.324	-0.581	1.204
82 Y	0.237	-0.132	1.617	-0.284	1.349	1.839	1.594	1.839	-0.284	0.889
83 E	-0.111	1.089	1.655	-0.981	1.367	1.843	1.440	1.843	-0.981	0.900
84 R	0.161	1.123	1.935	-1.163	1.731	2.332	1.431	2.332	-1.163	1.079
85 F	0.294	0.105	2.206	-1.253	2.032	2.337	1.163	2.337	-1.253	0.983
86 L	0.857	0.638	2.253	-0.412	2.105	2.358	0.718	2.358	-0.412	1.217
87 D	-0.218	1.469	1.842	0.128	1.750	1.764	1.179	1.842	-0.218	1.131
88 R	-0.351	1.786	1.655	0.760	1.549	1.158	1.400	1.786	-0.351	1.137
89 N	0.591	0.972	1.711	0.696	1.549	1.154	1.149	1.711	0.591	1.118
90 L	1.584	0.972	1.945	0.717	1.695	1.168	0.874	1.945	0.717	1.279
91 P	1.084	1.080	1.674	0.202	1.376	0.680	-0.127	1.674	-0.127	0.853
92 G	1.261	1.213	1.543	0.529	1.212	0.096	-0.239	1.543	-0.239	0.802
93 S	0.585	1.076	1.122	0.506	0.893	0.056	0.462	1.122	0.056	0.672
94 A	1.495	0.848	1.403	0.991	1.039	0.071	0.068	1.495	0.068	0.845
95 N	1.691	1.339	1.356	0.919	0.920	0.072	-0.111	1.691	-0.111	0.884
96 V	1.691	0.634	1.356	0.687	0.920	0.072	-0.111	1.691	-0.111	0.750
97 T	1.660	0.323	1.533	0.112	1.139	0.094	-0.107	1.660	-0.107	0.679
98 T	1.293	0.688	1.412	-0.266	1.130	0.096	1.491	1.491	-0.266	0.835
99 G	0.730	0.688	1.365	-0.767	1.057	0.075	1.936	1.936	-0.767	0.726
100Q	1.375	-0.036	1.636	-0.750	1.221	0.093	1.508	1.636	-0.750	0.721
101V	1.375	-0.851	1.636	-0.609	1.221	0.093	1.508	1.636	-0.851	0.625
102Y	0.813	-0.755	1.318	-0.339	1.057	0.075	2.056	2.056	-0.755	0.603
103S	-0.054	0.483	1.188	-0.261	1.084	0.077	2.377	2.377	-0.261	0.699
104T	-0.300	0.203	0.860	-0.665	0.711	0.034	1.203	1.203	-0.665	0.292
105V	0.294	0.525	1.431	-1.421	1.358	0.627	0.680	1.431	-1.421	0.499
106I	0.907	1.435	1.505	-2.120	1.485	1.207	0.321	1.505	-2.120	0.677
107A	0.762	2.387	1.786	-2.598	1.804	1.812	0.161	2.387	-2.598	0.873
108K	0.699	2.962	2.019	-2.720	2.123	2.417	0.119	2.962	-2.720	1.088
109E	1.293	1.724	2.132	-2.687	2.087	2.415	-0.469	2.415	-2.687	0.928
110R	2.292	0.944	2.599	-2.610	2.470	3.013	-0.817	3.013	-2.610	1.127
111R	2.039	0.758	2.851	-2.452	2.707	3.032	0.525	3.032	-2.452	1.351

112G	1.097	0.483	2.318	-2.262	2.078	2.443	0.895	2.443	-2.262	1.008
113E	0.964	0.347	1.982	-2.052	1.668	1.843	0.921	1.982	-2.052	0.811
114Y	1.331	-0.324	1.823	-1.660	1.513	1.708	0.913	1.823	-1.660	0.758
115L	1.394	0.574	1.589	-1.137	1.194	1.103	0.955	1.589	-1.137	0.810
116G	0.800	0.682	1.477	-0.575	1.230	1.105	1.543	1.543	-0.575	0.895
117D	0.686	-0.270	1.477	-0.110	1.239	0.547	1.733	1.733	-0.270	0.758
118T	0.572	-0.450	1.103	-0.168	0.993	0.530	1.990	1.990	-0.450	0.653
119V	0.648	-0.851	1.047	-0.662	0.966	0.526	1.876	1.876	-0.851	0.507
120Q	0.421	-1.079	1.300	-1.136	1.285	0.545	2.096	2.096	-1.136	0.490
121V	-0.079	-1.079	1.188	-1.177	1.139	0.676	2.372	2.372	-1.177	0.434
122I	-0.913	-0.444	0.851	-0.843	0.966	0.658	2.653	2.653	-0.913	0.418
123P	-0.351	0.455	1.169	-0.116	1.130	0.676	2.105	2.105	-0.351	0.724
124H	-0.098	-0.228	1.113	0.381	1.075	1.123	1.933	1.933	-0.228	0.757
125I	0.629	0.513	1.561	0.466	1.449	1.721	1.318	1.721	0.466	1.094
126T	0.629	1.652	1.561	0.187	1.449	1.721	1.318	1.721	0.187	1.217
127D	0.857	1.974	1.767	-0.409	1.813	2.296	1.163	2.296	-0.409	1.352
128E	0.990	1.111	2.038	-1.347	2.114	2.301	0.895	2.301	-1.347	1.157
129I	1.761	0.331	2.608	-2.095	2.606	2.924	0.572	2.924	-2.095	1.244
130K	0.926	0.656	2.272	-2.745	2.433	2.906	0.853	2.906	-2.745	1.043
131R	-0.288	-0.290	1.917	-3.097	2.123	2.422	1.297	2.422	-3.097	0.584
132R	-0.648	-1.103	1.589	-3.098	1.759	1.823	0.313	1.823	-3.098	0.091
133I	-0.408	-1.426	1.720	-3.054	1.823	1.838	-0.064	1.838	-3.054	0.061
134L	-0.635	-0.743	1.272	-2.963	1.185	1.244	-1.139	1.272	-2.963	-0.254
135A	-0.521	0.001	1.169	-2.729	1.084	0.661	-0.975	1.169	-2.729	-0.187
136M	-0.654	0.001	0.982	-2.272	0.884	0.056	-0.754	0.982	-2.272	-0.251
137A	0.484	0.654	1.393	-1.400	1.221	0.543	-1.084	1.393	-1.400	0.259
138Q	1.198	1.281	1.477	-0.521	1.212	0.537	-2.529	1.477	-2.529	0.379
139P	1.698	1.399	1.748	0.409	1.531	1.026	-1.528	1.748	-1.528	0.898
140D	2.324	1.854	1.748	0.784	1.440	1.009	-1.473	2.324	-1.473	1.098
141A	2.633	1.674	2.047	1.175	1.750	1.050	-0.576	2.633	-0.576	1.393
142D	2.520	2.213	2.150	1.116	1.850	1.632	-0.740	2.520	-0.740	1.534
143G	2.520	1.577	2.150	1.289	1.850	1.632	-0.740	2.520	-0.740	1.468
144N	2.520	0.854	2.150	1.212	1.850	1.632	-0.740	2.520	-0.740	1.354
145R	2.153	-0.080	2.029	1.136	1.841	1.634	0.859	2.153	-0.080	1.367
146P	1.287	-0.402	1.636	0.652	1.513	1.146	1.457	1.636	-0.402	1.041
147D	0.421	-0.186	1.505	0.099	1.540	1.148	1.778	1.778	-0.186	0.901
148V	0.307	-1.049	1.403	-0.772	1.385	1.127	1.932	1.932	-1.049	0.619
149V	0.534	-0.326	1.300	-1.430	1.276	1.102	1.906	1.906	-1.430	0.623
150I	-0.104	0.397	0.917	-1.915	0.984	1.085	2.008	2.008	-1.915	0.482
151T	-0.376	1.213	0.636	-2.176	0.619	0.596	2.017	2.017	-2.176	0.361
152E	0.218	0.626	0.748	-2.188	0.583	0.595	1.429	1.429	-2.188	0.287
153I	0.781	0.678	1.066	-2.114	0.747	0.613	0.881	1.066	-2.114	0.379
154G	1.053	1.541	1.085	-1.881	0.756	0.613	1.148	1.541	-1.881	0.616
155G	1.084	0.590	0.879	-1.612	0.556	0.593	1.108	1.108	-1.612	0.457
156T	1.224	0.538	0.823	-1.142	0.510	0.482	1.125	1.224	-1.142	0.508
157V	1.224	0.902	0.823	-0.897	0.510	0.482	1.125	1.224	-0.897	0.596
158G	1.356	1.489	1.160	-0.794	0.920	1.082	1.098	1.489	-0.794	0.902
159D	1.407	1.221	1.318	-0.712	1.121	1.102	1.258	1.407	-0.712	0.959
160I	1.457	0.507	1.449	-0.719	1.339	1.124	1.380	1.457	-0.719	0.934
161E	1.824	0.628	1.814	-0.454	1.622	1.142	1.012	1.824	-0.454	1.084
162S	0.882	0.628	1.758	-0.020	1.622	1.146	1.262	1.758	-0.020	1.040
163Q	-0.332	-0.228	1.403	0.122	1.312	0.662	1.706	1.706	-0.332	0.664
164P	0.667	-0.719	1.870	-0.006	1.695	1.260	1.358	1.870	-0.719	0.875
165F	0.307	-0.264	1.543	-0.584	1.330	0.660	0.375	1.543	-0.584	0.481
166L	0.029	0.401	1.393	-1.383	1.175	0.640	-0.795	1.393	-1.383	0.209
167E	-0.085	0.509	1.496	-1.941	1.276	1.223	-0.960	1.496	-1.941	0.217
168A	0.161	0.748	1.580	-2.154	1.376	1.246	-1.016	1.580	-2.154	0.277
169A	0.509	0.838	1.524	-2.159	1.412	1.243	-0.679	1.524	-2.159	0.384
170R	1.356	0.431	2.038	-2.008	1.877	1.863	-1.114	2.038	-2.008	0.635

171Q	0.996	-0.587	1.870	-1.541	1.686	1.883	-0.821	1.883	-1.541	0.498
172V	0.743	-0.450	2.122	-1.047	1.923	1.902	0.521	2.122	-1.047	0.816
173R	0.029	0.459	2.038	-0.483	1.932	1.908	1.966	2.038	-0.483	1.121
174H	0.123	0.221	1.599	-0.192	1.412	1.283	1.968	1.968	-0.192	0.916
175Y	0.010	0.670	1.702	-0.491	1.513	1.865	1.803	1.865	-0.491	1.010
176L	0.737	0.980	2.150	-1.173	1.886	2.463	1.188	2.463	-1.173	1.176
177G	1.103	1.010	1.991	-1.480	1.731	2.328	1.180	2.328	-1.480	1.123
178R	0.737	0.209	1.711	-1.639	1.549	1.709	1.502	1.711	-1.639	0.825
179E	0.275	-0.809	1.393	-1.100	1.267	1.694	1.421	1.694	-1.100	0.592
180D	0.275	-1.294	1.412	-0.589	1.212	1.693	1.237	1.693	-1.294	0.564
181V	-0.667	-1.929	1.337	-0.414	1.267	1.698	1.672	1.698	-1.929	0.423
182F	-0.800	-0.977	1.066	-0.184	0.966	1.694	1.940	1.940	-0.977	0.529
183F	-1.527	-1.007	0.618	-0.073	0.592	1.096	2.555	2.555	-1.527	0.322
184L	-1.748	-0.929	0.496	0.272	0.428	0.627	2.724	2.724	-1.748	0.267
185H	-2.096	-0.366	0.533	0.488	0.446	0.631	2.570	2.570	-2.096	0.315
186V	-1.748	-0.863	0.477	0.399	0.483	0.628	2.908	2.908	-1.748	0.326
187S	-1.034	-0.971	0.786	-0.064	0.802	0.643	2.876	2.876	-1.034	0.434
188L	-0.572	-1.827	1.122	-0.435	1.030	0.657	2.773	2.773	-1.827	0.393
189V	-1.286	-1.264	0.879	-0.923	0.866	0.042	2.941	2.941	-1.286	0.179
190P	-0.920	-0.312	1.001	-1.017	0.875	0.041	1.342	1.342	-1.017	0.144
191Y	-1.198	-0.044	1.094	-1.177	0.993	0.040	1.402	1.402	-1.198	0.159
192L	-0.205	0.938	1.328	-1.006	1.139	0.054	1.127	1.328	-1.006	0.482
193A	0.389	0.938	1.440	-0.667	1.103	0.053	0.539	1.440	-0.667	0.542
194P	0.749	1.770	1.524	-0.326	1.194	0.633	0.293	1.770	-0.326	0.834
195S	0.288	1.902	1.188	-0.300	0.966	0.619	0.395	1.902	-0.300	0.723
196G	1.230	1.878	1.720	-0.788	1.595	1.208	0.025	1.878	-0.788	0.981
197E	1.426	1.609	1.917	-1.402	1.750	1.228	1.076	1.917	-1.402	1.086
198L	1.653	1.525	2.122	-1.880	2.114	1.804	0.921	2.122	-1.880	1.180
199K	1.375	2.221	2.216	-1.810	2.233	1.803	0.982	2.233	-1.810	1.288
200T	1.344	1.479	2.421	-1.387	2.433	1.823	1.022	2.433	-1.387	1.305
201K	1.230	1.844	2.421	-0.831	2.442	1.266	1.212	2.442	-0.831	1.369
202P	1.944	0.916	2.664	-0.087	2.606	1.880	1.044	2.664	-0.087	1.567
203T	1.995	0.558	2.365	0.756	2.123	1.306	1.139	2.365	0.558	1.463
204Q	1.432	0.067	2.047	1.345	1.959	1.287	1.687	2.047	0.067	1.404
205H	1.205	-0.629	1.599	1.554	1.321	0.693	0.612	1.599	-0.629	0.908
206S	1.205	0.095	1.356	0.938	1.048	0.674	-0.618	1.356	-0.618	0.671
207V	0.294	0.095	1.075	-0.184	0.902	0.659	-0.224	1.075	-0.224	0.374
208A	0.180	-0.134	1.178	-1.294	1.002	1.241	-0.388	1.241	-1.294	0.255
209A	0.459	0.493	1.169	-1.851	0.984	0.642	-0.496	1.169	-1.851	0.200
210L	-0.458	0.169	0.879	-1.969	0.811	0.623	-0.334	0.879	-1.969	-0.040
211R	0.136	0.864	0.991	-1.629	0.774	0.622	-0.923	0.991	-1.629	0.119
212S	-0.503	0.409	0.851	-1.600	0.756	0.624	0.409	0.851	-1.600	0.135
213I	-0.307	0.093	1.047	-1.640	0.911	0.644	1.460	1.460	-1.640	0.316
214G	0.408	0.417	1.375	-1.720	1.175	0.657	1.245	1.375	-1.720	0.508
215I	0.775	-0.414	1.216	-1.193	1.020	0.521	1.237	1.237	-1.193	0.452
216T	0.496	-0.414	1.066	-0.615	0.866	0.501	0.067	1.066	-0.615	0.281
217P	0.421	-1.109	1.122	0.071	0.893	0.505	0.180	1.122	-1.109	0.297
218D	-0.446	-0.655	0.991	-0.110	0.920	0.507	0.502	0.991	-0.655	0.244
219A	-0.521	-1.158	1.047	-0.824	0.948	0.510	0.615	1.047	-1.158	0.088
220L	-0.585	-0.619	1.281	-1.892	1.267	1.115	0.573	1.281	-1.892	0.163
221I	-0.629	0.399	0.823	-2.365	0.902	1.114	0.976	1.114	-2.365	0.174
222L	-0.629	1.263	0.823	-2.112	0.902	1.114	0.976	1.263	-2.112	0.334
223R	-0.496	1.371	1.253	-1.301	1.376	1.739	1.985	1.985	-1.301	0.847
224C	0.718	0.916	1.608	-0.240	1.686	2.222	1.541	2.222	-0.240	1.207
225D	0.990	1.455	1.627	0.304	1.695	2.222	1.808	2.222	0.304	1.443
226R	1.704	0.916	1.954	0.510	1.959	2.235	1.593	2.235	0.510	1.553
227D	1.932	-0.102	1.851	0.227	1.850	2.210	1.568	2.210	-0.102	1.362
228V	1.976	0.191	2.066	-0.187	1.941	2.192	-0.065	2.192	-0.187	1.159
229P	0.762	0.896	1.711	-0.865	1.631	1.709	0.379	1.711	-0.865	0.889

230E	0.857	1.369	1.730	-1.360	1.795	1.679	0.445	1.795	-1.360	0.931
231A	0.667	0.469	1.758	-1.546	1.786	1.231	0.341	1.786	-1.546	0.672
232L	1.261	0.469	2.328	-1.266	2.433	1.824	-0.183	2.433	-1.266	0.981
233K	0.623	0.469	1.945	-0.806	2.142	1.806	-0.081	2.142	-0.806	0.871
234N	0.263	-0.476	1.617	-0.607	1.777	1.207	-1.065	1.777	-1.065	0.388
235K	-0.452	-1.049	1.533	-0.998	1.786	1.212	0.380	1.786	-1.049	0.345
236I	-0.136	-1.342	1.608	-1.837	1.823	1.224	-0.110	1.823	-1.837	0.176
237A	-0.408	-1.113	0.945	-2.206	1.093	0.647	0.447	1.093	-2.206	-0.085
238L	-0.218	-0.574	0.917	-2.097	1.103	1.096	0.551	1.103	-2.097	0.111
239M	-0.812	-0.695	0.346	-1.307	0.455	0.503	1.075	1.075	-1.307	-0.062
240C	0.326	-0.042	0.758	-0.218	0.793	0.990	0.745	0.990	-0.218	0.479
241D	-0.313	0.550	0.618	0.278	0.774	0.991	2.076	2.076	-0.313	0.711
242V	0.901	-0.086	0.973	0.578	1.084	1.475	1.632	1.632	-0.086	0.937
243D	1.527	-0.314	0.973	0.369	0.993	1.458	1.688	1.688	-0.314	0.956
244I	1.205	0.003	1.066	0.091	1.075	1.442	1.654	1.654	0.003	0.934
245D	0.067	0.818	0.655	-0.503	0.738	0.954	1.985	1.985	-0.503	0.673
246G	0.711	0.638	0.926	-0.732	0.902	0.973	1.556	1.556	-0.732	0.711
247V	0.408	0.550	0.851	-1.128	0.738	0.504	1.606	1.606	-1.128	0.504
248I	1.046	0.646	1.234	-0.741	1.030	0.521	1.504	1.504	-0.741	0.749
249S	1.046	1.329	1.234	-0.132	1.030	0.521	1.504	1.504	-0.132	0.933
250T	0.819	1.329	1.244	0.557	1.075	0.521	0.494	1.329	0.494	0.863
251P	1.186	0.513	1.608	0.937	1.358	0.539	0.125	1.608	0.125	0.895
252D	2.102	-0.252	1.898	1.052	1.531	0.557	-0.037	2.102	-0.252	0.979
253A	1.186	-0.252	1.608	0.673	1.358	0.539	0.125	1.608	-0.252	0.748
254P	0.737	-0.576	1.664	0.326	1.440	0.538	0.416	1.664	-0.576	0.649
255S	1.236	-0.576	1.692	0.070	1.485	1.008	0.187	1.692	-0.576	0.729
256I	0.098	-0.601	1.281	-0.358	1.148	0.521	0.518	1.281	-0.601	0.372
257Y	0.098	-0.372	1.524	-0.349	1.422	0.540	1.748	1.748	-0.372	0.659
258D	0.326	-0.170	1.730	-0.519	1.786	1.115	1.593	1.786	-0.519	0.837
259I	-0.319	-0.619	1.459	-0.771	1.622	1.097	2.022	2.022	-0.771	0.642
260P	-0.395	0.519	1.515	-1.163	1.649	1.101	2.135	2.135	-1.163	0.766
261K	-0.142	0.736	1.421	-1.193	1.586	1.701	2.071	2.071	-1.193	0.883
262V	-0.509	0.479	1.580	-1.242	1.741	1.837	2.079	2.079	-1.242	0.852
263L	0.490	0.371	2.047	-0.728	2.123	2.435	1.731	2.435	-0.728	1.210
264H	0.850	1.115	2.132	-0.698	2.214	3.015	1.484	3.015	-0.698	1.445
265R	-0.092	1.024	1.599	-0.963	1.586	2.426	1.854	2.426	-0.963	1.062
266E	0.775	0.037	1.991	-1.329	1.914	2.913	1.257	2.913	-1.329	1.080
267E	1.489	-0.635	2.075	-1.411	1.905	2.908	-0.188	2.908	-1.411	0.878
268L	0.775	-1.306	1.851	-1.151	1.686	2.292	-0.205	2.292	-1.306	0.563
269D	0.275	-0.288	1.300	-0.726	1.203	1.669	0.385	1.669	-0.726	0.545
270A	-0.452	-0.013	0.851	-0.647	0.829	1.071	1.000	1.071	-0.647	0.377
271F	-0.680	-0.218	0.954	-1.068	0.938	1.096	1.025	1.096	-1.068	0.293
272V	0.168	0.566	1.468	-1.583	1.403	1.715	0.590	1.715	-1.583	0.618
273V	-1.046	0.457	1.113	-2.229	1.093	1.232	1.034	1.232	-2.229	0.236
274R	-0.736	0.912	1.412	-2.022	1.403	1.273	1.931	1.931	-2.022	0.596
275R	-0.736	-0.076	1.393	-1.636	1.458	1.274	2.114	2.114	-1.636	0.542
276L	-0.370	-0.076	1.758	-0.646	1.741	1.291	1.746	1.758	-0.646	0.778
277N	-0.717	0.668	1.814	0.072	1.704	1.294	1.408	1.814	-0.717	0.892
278L	-0.717	-0.038	1.814	0.299	1.704	1.294	1.408	1.814	-0.717	0.823
279P	-0.351	0.706	1.655	0.188	1.549	1.158	1.400	1.655	-0.351	0.901
280F	-0.003	-0.156	1.617	-0.052	1.531	1.154	1.554	1.617	-0.156	0.806
281R	0.187	0.509	1.589	-0.092	1.540	1.603	1.658	1.658	-0.092	0.999
282D	0.136	0.271	1.692	0.072	1.549	1.622	1.245	1.692	0.072	0.941
283V	0.332	-0.771	1.646	0.226	1.431	1.623	1.066	1.646	-0.771	0.793
284D	1.407	-0.136	2.038	-0.035	1.841	2.219	0.788	2.219	-0.136	1.160
285W	0.509	-0.136	1.627	-0.372	1.385	1.619	0.812	1.627	-0.372	0.778
286T	0.509	0.163	1.627	-0.810	1.385	1.619	0.812	1.627	-0.810	0.758
287E	1.375	-0.532	2.019	-0.591	1.713	2.107	0.214	2.107	-0.591	0.901
288W	0.161	-0.294	1.664	-0.261	1.403	1.623	0.658	1.664	-0.294	0.708

289D	0.212	1.022	1.561	0.248	1.394	1.603	1.071	1.603	0.212	1.016
290D	0.149	0.387	1.795	0.051	1.713	2.208	1.029	2.208	0.051	1.047
291L	-0.079	-0.062	1.898	-0.730	1.823	2.233	1.054	2.233	-0.730	0.877
292L	0.319	0.718	1.758	-1.685	1.795	2.209	1.621	2.209	-1.685	0.962
293R	-0.180	1.281	1.646	-1.979	1.649	2.340	1.897	2.340	-1.979	0.951
294R	-0.319	0.558	1.702	-1.731	1.695	2.451	1.880	2.451	-1.731	0.891
295V	0.395	0.319	2.029	-0.753	1.959	2.465	1.665	2.465	-0.753	1.154
296H	1.110	0.906	2.272	0.254	2.123	3.079	1.497	3.079	0.254	1.606
297E	1.337	0.720	2.169	0.867	2.014	3.054	1.472	3.054	0.720	1.662
298P	1.401	0.958	1.935	1.146	1.695	2.449	1.513	2.449	0.958	1.585
299H	1.401	0.275	1.935	0.948	1.695	2.449	1.513	2.449	0.275	1.459
300E	1.533	0.185	2.206	0.169	1.996	2.454	1.245	2.454	0.169	1.398
301T	0.534	-0.595	1.739	-0.757	1.613	1.856	1.593	1.856	-0.757	0.855
302V	0.534	-1.182	1.496	-1.672	1.339	1.837	0.363	1.837	-1.672	0.388
303R	-0.180	-0.458	1.253	-2.478	1.175	1.223	0.531	1.253	-2.478	0.152
304I	-0.907	-0.440	0.804	-2.679	0.802	0.625	1.146	1.146	-2.679	-0.093
305A	-0.876	-0.522	0.599	-2.699	0.601	0.605	1.105	1.105	-2.699	-0.170
306L	-0.281	-0.619	1.169	-2.515	1.248	1.198	0.582	1.248	-2.515	0.112
307V	-0.667	0.161	0.991	-2.275	1.011	0.593	0.914	1.011	-2.275	0.104
308G	-0.395	0.053	1.010	-2.102	1.020	0.592	1.182	1.182	-2.102	0.194
309K	-0.035	0.281	1.337	-2.021	1.385	1.192	2.165	2.165	-2.021	0.615
310Y	-0.035	-0.011	1.337	-2.032	1.385	1.192	2.165	2.165	-2.032	0.572
311V	0.610	0.395	1.608	-1.844	1.549	1.210	1.736	1.736	-1.844	0.752
312E	0.882	0.085	1.889	-1.363	1.914	1.699	1.727	1.914	-1.363	0.976
313L	0.655	-0.695	1.440	-0.619	1.276	1.105	0.652	1.440	-0.695	0.545
314S	0.655	0.365	1.440	0.071	1.276	1.105	0.652	1.440	0.071	0.795
315D	0.307	-0.587	1.477	0.207	1.294	1.109	0.498	1.477	-0.587	0.615
316A	0.225	-1.125	1.300	-0.019	1.084	0.529	0.684	1.300	-1.125	0.383
317Y	0.572	-0.550	1.262	-0.486	1.066	0.525	0.838	1.262	-0.550	0.461
318L	0.294	-0.144	1.113	-0.750	0.911	0.505	-0.332	1.113	-0.750	0.228
319S	0.155	-0.144	1.169	-1.001	0.957	0.616	-0.349	1.169	-1.001	0.200
320V	0.155	-0.186	1.169	-1.214	0.957	0.616	-0.349	1.169	-1.214	0.164
321A	-0.307	-0.090	0.832	-1.718	0.729	0.602	-0.246	0.832	-1.718	-0.028
322E	0.541	0.538	1.346	-2.088	1.194	1.221	-0.682	1.346	-2.088	0.296
323A	0.263	0.590	1.197	-2.434	1.039	1.201	-1.852	1.201	-2.434	0.000
324L	0.857	0.415	1.309	-2.461	1.002	1.199	-2.440	1.309	-2.461	-0.017
325R	1.084	1.451	1.300	-2.385	0.957	1.199	-1.430	1.451	-2.385	0.311
326A	0.010	0.728	0.907	-2.094	0.547	0.604	-1.153	0.907	-2.094	-0.064
327G	0.237	1.541	1.356	-1.812	1.185	1.199	-0.077	1.541	-1.812	0.518
328G	0.952	0.914	1.599	-1.161	1.349	1.813	-0.245	1.813	-1.161	0.746
329F	0.952	1.119	1.599	-0.708	1.349	1.813	-0.245	1.813	-0.708	0.840
330K	0.952	1.197	1.599	-0.272	1.349	1.813	-0.245	1.813	-0.272	0.913
331H	0.952	0.940	2.057	-0.367	2.032	2.408	-0.180	2.408	-0.367	1.120
332R	0.357	0.525	1.945	-0.811	2.069	2.409	0.408	2.409	-0.811	0.986
333A	1.432	-0.252	2.337	-1.606	2.479	3.005	0.131	3.005	-1.606	1.075
334K	0.566	-0.755	1.748	-2.138	1.823	2.412	0.387	2.412	-2.138	0.578
335V	0.522	-1.682	1.375	-2.415	1.558	1.810	0.742	1.810	-2.415	0.273
336E	-0.376	-1.586	0.963	-2.250	1.103	1.210	0.765	1.210	-2.250	-0.024
337I	-0.743	-1.306	0.842	-1.957	1.093	1.212	2.364	2.364	-1.957	0.215
338C	-0.970	-0.442	0.393	-1.759	0.455	0.617	1.289	1.289	-1.759	-0.059
339W	-0.325	0.149	0.664	-1.467	0.619	0.636	0.860	0.860	-1.467	0.162
340V	-0.186	0.688	0.608	-1.034	0.574	0.525	0.877	0.877	-1.034	0.293
341A	0.680	1.359	0.739	-0.330	0.547	0.523	0.556	1.359	-0.330	0.582
342S	0.680	1.850	0.739	0.384	0.547	0.523	0.556	1.850	0.384	0.754
343D	1.805	1.485	1.047	0.710	0.893	1.098	0.508	1.805	0.508	1.078
344G	2.368	1.802	1.365	0.563	1.057	1.116	-0.040	2.368	-0.040	1.176
345C	2.564	1.802	1.561	0.130	1.212	1.136	1.010	2.564	0.130	1.345
346E	2.564	1.766	1.561	-0.043	1.212	1.136	1.010	2.564	-0.043	1.315
347T	2.292	1.191	1.281	-0.057	0.847	0.647	1.020	2.292	-0.057	1.032

348T	2.064	0.700	1.290	0.155	0.893	0.647	0.009	2.064	0.009	0.823
349S	2.109	0.209	1.505	-0.113	0.984	0.629	-1.623	2.109	-1.623	0.529
350G	1.748	-0.851	1.178	-0.610	0.619	0.030	-2.607	1.748	-2.607	-0.070
351A	1.552	-0.851	0.982	-1.345	0.465	0.010	-3.658	1.552	-3.658	-0.406
352A	0.642	-0.312	0.702	-1.872	0.319	-0.005	-3.264	0.702	-3.264	-0.541
353A	0.591	-0.408	0.543	-2.175	0.118	-0.025	-3.423	0.591	-3.423	-0.683
354A	0.863	-0.318	0.823	-1.906	0.483	0.464	-3.432	0.863	-3.432	-0.432
355L	0.496	0.309	0.702	-1.512	0.474	0.466	-1.834	0.702	-1.834	-0.128
356G	0.496	0.417	0.860	-0.579	0.647	1.086	-0.556	1.086	-0.579	0.339
357D	0.724	-0.414	0.851	0.151	0.601	1.086	0.454	1.086	-0.414	0.493
358V	0.357	-1.278	0.730	0.649	0.592	1.087	2.053	2.053	-1.278	0.599
359H	0.357	-0.823	0.730	0.423	0.592	1.087	2.053	2.053	-0.823	0.631
360G	-0.509	-0.286	0.599	-0.326	0.619	1.089	2.375	2.375	-0.509	0.509
361V	-1.008	-0.286	0.571	-1.285	0.574	0.619	2.603	2.603	-1.285	0.255
362L	-0.414	-0.364	0.683	-1.743	0.537	0.617	2.015	2.015	-1.743	0.190
363I	-0.186	0.467	0.515	-1.876	0.319	-0.002	1.748	1.748	-1.876	0.141
364P	-1.128	0.467	0.459	-1.491	0.319	0.002	1.999	1.999	-1.491	0.089
365G	-0.534	0.922	0.571	-1.173	0.282	0.000	1.410	1.410	-1.173	0.211
366G	-0.458	0.922	0.515	-1.183	0.255	-0.003	1.297	1.297	-1.183	0.192
367F	0.313	-0.030	1.085	-1.405	0.747	0.620	0.975	1.085	-1.405	0.329
368G	0.541	0.720	0.832	-1.891	0.428	0.601	0.755	0.832	-1.891	0.284
369I	-0.325	0.720	0.702	-2.349	0.455	0.602	1.076	1.076	-2.349	0.126
370R	-0.193	1.876	1.038	-2.621	0.866	1.202	1.050	1.876	-2.621	0.460
371G	0.749	0.738	1.094	-2.722	0.866	1.198	0.799	1.198	-2.722	0.389
372I	0.749	0.738	1.552	-2.667	1.549	1.792	0.864	1.792	-2.667	0.654
373E	0.749	1.062	1.552	-2.608	1.549	1.792	0.864	1.792	-2.608	0.709
374G	0.844	0.163	1.113	-2.558	1.030	1.168	0.865	1.168	-2.558	0.375
375K	0.617	-0.464	1.122	-2.603	1.075	1.168	-0.146	1.168	-2.603	0.110
376I	0.617	-1.703	1.122	-2.620	1.075	1.168	-0.146	1.168	-2.620	-0.069
377G	0.256	-1.378	0.795	-2.626	0.711	0.568	-1.129	0.795	-2.626	-0.401
378A	-0.224	-1.192	1.057	-2.574	0.993	0.587	-0.798	1.057	-2.574	-0.307
379I	-0.452	-1.192	0.608	-2.461	0.355	-0.007	-1.873	0.608	-2.461	-0.717
380A	0.319	-0.054	1.178	-2.296	0.847	0.616	-2.195	1.178	-2.296	-0.226
381Y	0.092	0.574	1.188	-2.196	0.893	0.616	-3.206	1.188	-3.206	-0.291
382A	0.225	0.776	1.617	-2.238	1.367	1.240	-2.197	1.617	-2.238	0.113
383R	1.091	1.135	1.748	-2.296	1.339	1.239	-2.518	1.748	-2.518	0.248
384A	0.376	0.225	1.664	-2.404	1.349	1.244	-1.073	1.664	-2.404	0.197
385R	0.629	0.021	1.655	-2.227	1.385	1.244	-1.185	1.655	-2.227	0.217
386G	0.263	-0.166	1.533	-1.961	1.376	1.245	0.414	1.533	-1.961	0.386
387L	-0.585	-0.997	1.019	-1.627	0.911	0.626	0.850	1.019	-1.627	0.028
388P	-0.357	-0.757	1.010	-1.508	0.866	0.626	1.860	1.860	-1.508	0.248
389V	-1.204	-1.320	0.496	-1.600	0.401	0.007	2.296	2.296	-1.600	-0.132
390L	-1.476	-0.597	0.290	-1.679	0.355	0.024	2.918	2.918	-1.679	-0.023
391G	-1.476	-0.597	0.290	-1.652	0.355	0.024	2.918	2.918	-1.652	-0.020
392L	-1.249	-0.733	0.038	-1.495	0.036	0.005	2.698	2.698	-1.495	-0.100
393C	-1.596	-0.492	0.075	-1.404	0.054	0.009	2.545	2.545	-1.596	-0.116
394L	-0.635	-0.853	0.487	-1.379	0.419	0.046	2.273	2.273	-1.379	0.051
395G	-0.907	-0.745	0.281	-1.372	0.373	0.064	2.895	2.895	-1.372	0.084
396L	-0.831	-1.697	0.225	-1.248	0.346	0.060	2.782	2.782	-1.697	-0.052
397Q	-1.154	-0.917	0.318	-1.174	0.428	0.044	2.748	2.748	-1.174	0.042
398C	-1.078	-1.408	0.262	-1.330	0.401	0.041	2.635	2.635	-1.408	-0.068
399I	-0.945	-1.444	0.599	-1.816	0.811	0.640	2.608	2.608	-1.816	0.065
400V	-0.231	-0.306	0.683	-2.359	0.802	0.635	1.163	1.163	-2.359	0.055
401I	-0.477	0.646	0.356	-2.646	0.428	0.592	-0.010	0.646	-2.646	-0.159
402E	-0.300	0.874	1.001	-2.731	0.993	1.199	-0.634	1.199	-2.731	0.057
403A	0.617	0.926	1.290	-2.269	1.166	1.218	-0.795	1.290	-2.269	0.308
404A	0.617	0.722	1.290	-1.888	1.166	1.218	-0.795	1.290	-1.888	0.333
405R	1.483	1.213	1.421	-1.354	1.139	1.216	-1.117	1.483	-1.354	0.572
406S	0.408	1.008	1.010	-1.149	0.784	0.622	-0.655	1.010	-1.149	0.290

407V	0.604	0.153	1.206	-1.090	0.938	0.641	0.395	1.206	-1.090	0.407
408G	0.914	0.858	1.505	-0.853	1.248	0.682	1.293	1.505	-0.853	0.807
409L	0.781	1.087	1.075	-0.378	0.774	0.057	0.283	1.087	-0.378	0.526
410T	0.813	1.291	1.225	0.632	0.929	0.078	0.010	1.291	0.010	0.711
411N	1.457	1.375	1.496	1.674	1.093	0.096	-0.418	1.674	-0.418	0.968
412A	1.230	0.592	1.505	2.252	1.139	0.096	-1.429	2.252	-1.429	0.769
413N	2.305	1.131	1.917	2.057	1.494	0.691	-1.890	2.305	-1.890	1.101
414S	1.394	0.880	1.655	1.339	1.294	0.675	-1.680	1.655	-1.680	0.794
415A	1.584	0.564	1.627	0.380	1.303	1.123	-1.576	1.627	-1.576	0.715
416E	1.584	1.054	1.870	0.119	1.576	1.142	-0.346	1.870	-0.346	1.000
417F	1.774	0.838	1.842	0.415	1.586	1.591	-0.242	1.842	-0.242	1.115
418D	1.691	1.551	1.889	1.066	1.586	1.590	-0.361	1.889	-0.361	1.288
419P	1.691	1.371	2.132	1.638	1.859	1.609	0.869	2.132	0.869	1.596
420D	1.830	0.916	2.075	1.827	1.813	1.499	0.887	2.075	0.887	1.550
421T	2.545	0.053	2.384	1.781	2.132	1.514	0.856	2.545	0.053	1.609
422P	1.679	-0.438	1.991	1.501	1.804	1.026	1.453	1.991	-0.438	1.288
423D	1.040	-0.306	1.608	1.012	1.513	1.009	1.555	1.608	-0.306	1.062
424P	0.541	-0.959	1.337	0.073	1.194	0.520	0.554	1.337	-0.959	0.466
425V	0.541	-0.959	1.337	-0.882	1.194	0.520	0.554	1.337	-0.959	0.329
426I	0.142	-0.324	1.085	-1.688	0.966	0.518	0.279	1.085	-1.688	0.140
427A	-0.357	0.491	1.057	-1.856	0.920	0.048	0.508	1.057	-1.856	0.116
428T	0.142	1.066	1.085	-1.422	0.966	0.518	0.279	1.085	-1.422	0.376
429M	0.756	1.151	1.533	-0.677	1.349	0.559	-0.147	1.533	-0.677	0.646
430P	1.755	0.940	2.001	-0.034	1.731	1.157	-0.495	2.001	-0.495	1.008
431D	2.115	0.485	2.328	0.164	2.096	1.756	0.489	2.328	0.164	1.348
432Q	1.280	-0.054	1.991	-0.400	1.923	1.738	0.770	1.991	-0.400	1.036
433E	1.312	0.083	1.879	-1.229	1.868	1.723	1.414	1.879	-1.229	1.007
434E	1.312	0.083	1.636	-2.102	1.595	1.704	0.184	1.704	-2.102	0.630
435I	1.040	-0.492	1.356	-2.537	1.230	1.215	0.193	1.356	-2.537	0.286
436V	1.154	0.371	1.356	-2.534	1.221	1.772	0.003	1.772	-2.534	0.478
437A	0.794	0.263	1.029	-2.323	0.856	1.172	-0.980	1.172	-2.323	0.116
438G	0.933	0.890	0.973	-1.895	0.811	1.062	-0.963	1.062	-1.895	0.259
439E	0.857	0.890	1.029	-1.488	0.838	1.065	-0.850	1.065	-1.488	0.334
440A	1.451	0.806	1.141	-1.040	0.802	1.064	-1.438	1.451	-1.438	0.398
441D	1.679	0.692	1.132	-0.844	0.756	1.064	-0.428	1.679	-0.844	0.579
442L	1.647	0.966	1.337	-0.836	0.957	1.084	-0.387	1.647	-0.836	0.681
443G	0.888	0.966	1.001	-1.148	0.638	0.501	-0.416	1.001	-1.148	0.347
444G	1.021	0.966	1.431	-1.403	1.112	1.126	0.593	1.431	-1.403	0.692
445T	-0.193	1.195	1.075	-1.878	0.802	0.642	1.037	1.195	-1.878	0.383
446M	0.749	0.297	1.150	-2.138	0.747	0.637	0.602	1.150	-2.138	0.292
447R	0.800	0.770	1.309	-2.133	0.948	0.657	0.762	1.309	-2.133	0.445
448L	0.319	-0.044	1.571	-1.747	1.230	0.676	1.094	1.571	-1.747	0.443
449G	0.123	0.065	1.617	-0.996	1.349	0.675	1.273	1.617	-0.996	0.587
450S	0.522	-0.767	1.627	-0.361	1.303	0.658	0.318	1.627	-0.767	0.471
451Y	0.022	-1.047	1.075	-0.176	0.820	0.035	0.908	1.075	-1.047	0.234
452P	0.022	-0.282	1.075	-0.573	0.820	0.035	0.908	1.075	-0.573	0.287
453A	0.155	-0.102	1.412	-1.183	1.230	0.635	0.881	1.412	-1.183	0.433
454V	-0.123	0.754	1.505	-1.693	1.349	0.634	0.941	1.505	-1.693	0.481
455L	0.629	0.754	1.524	-1.489	1.431	1.103	0.600	1.524	-1.489	0.650
456E	0.907	0.862	1.431	-0.740	1.312	1.104	0.540	1.431	-0.740	0.774
457P	0.541	0.287	1.309	0.223	1.303	1.106	2.139	2.139	0.223	0.987
458D	0.541	0.419	1.309	0.774	1.303	1.106	2.139	2.139	0.419	1.084
459S	1.255	-0.120	1.393	0.498	1.294	1.101	0.694	1.393	-0.120	0.874
460V	1.141	-1.382	1.393	-0.242	1.303	0.543	0.883	1.393	-1.382	0.520
461V	1.141	-0.795	1.150	-1.074	1.030	0.524	-0.347	1.150	-1.074	0.233
462A	0.389	-0.208	1.132	-1.444	0.948	0.055	-0.006	1.132	-1.444	0.124
463Q	0.357	0.283	1.309	-1.443	1.166	0.077	-0.002	1.309	-1.443	0.250
464A	0.920	0.283	1.627	-1.133	1.330	0.096	-0.550	1.627	-1.133	0.367
465Y	1.483	0.187	1.945	-0.799	1.494	0.114	-1.098	1.945	-1.098	0.475

466Q	1.729	1.449	2.272	-0.421	1.868	0.156	0.075	2.272	-0.421	1.018
467T	1.116	1.533	1.823	-0.279	1.485	0.115	0.501	1.823	-0.279	0.899
468T	1.394	1.856	1.973	-0.094	1.640	0.136	1.671	1.973	-0.094	1.225
469Q	2.008	1.455	2.047	-0.219	1.768	0.716	1.312	2.047	-0.219	1.298
470V	1.894	1.778	2.150	-0.410	1.868	1.298	1.148	2.150	-0.410	1.389
471S	1.698	1.964	2.113	-0.380	1.886	1.898	1.375	2.113	-0.380	1.508
472E	1.634	1.922	2.346	-0.423	2.205	2.503	1.333	2.503	-0.423	1.646
473R	1.388	0.940	2.178	0.058	2.005	3.080	1.437	3.080	0.058	1.584
474H	1.887	0.702	2.730	0.430	2.488	3.703	0.847	3.703	0.430	1.827
475R	1.356	0.515	2.832	0.654	2.570	3.702	1.020	3.702	0.515	1.807
476H	1.356	0.311	2.832	0.322	2.570	3.702	1.020	3.702	0.311	1.731
477R	0.857	0.830	2.281	-0.262	2.087	3.079	1.609	3.079	-0.262	1.497
478Y	1.167	0.017	2.421	-0.786	2.224	2.500	1.229	2.500	-0.786	1.253
479E	1.344	0.017	2.290	-0.190	2.060	1.916	1.117	2.290	-0.190	1.222
480V	1.344	0.255	2.132	0.671	1.886	1.296	-0.161	2.132	-0.161	1.060
481N	0.958	0.890	1.954	1.764	1.649	0.691	0.172	1.954	0.172	1.154
482N	1.344	1.113	2.132	1.757	1.886	1.296	-0.161	2.132	-0.161	1.338
483A	1.483	0.179	2.075	1.093	1.841	1.186	-0.143	2.075	-0.143	1.102
484Y	2.077	0.179	2.646	0.078	2.488	1.779	-0.667	2.646	-0.667	1.226
485R	1.129	1.161	2.206	-0.666	2.160	1.740	-0.232	2.206	-0.666	1.071
486D	0.819	1.203	1.907	-1.190	1.850	1.699	-1.129	1.907	-1.190	0.737
487K	1.179	1.291	2.234	-1.558	2.214	2.299	-0.146	2.299	-1.558	1.073
488I	1.710	0.255	2.132	-1.843	2.132	2.300	-0.318	2.300	-1.843	0.910
489A	1.805	1.393	1.692	-1.732	1.613	1.675	-0.317	1.805	-1.732	0.876
490E	0.591	1.219	1.337	-1.426	1.303	1.191	0.127	1.337	-1.426	0.620
491S	0.496	1.499	1.318	-1.142	1.139	1.221	0.061	1.499	-1.142	0.656
492G	0.421	1.271	1.393	-1.140	1.112	1.224	-0.009	1.393	-1.140	0.610
493L	0.699	1.135	1.543	-1.239	1.267	1.244	1.161	1.543	-1.239	0.830
494R	0.566	2.194	1.206	-1.059	0.856	0.644	1.187	2.194	-1.059	0.799
495F	0.484	1.740	1.253	-0.627	0.856	0.644	1.068	1.740	-0.627	0.774
496S	0.534	2.453	1.412	0.004	1.057	0.664	1.228	2.453	0.004	1.050
497G	1.249	2.225	1.739	0.456	1.321	0.678	1.013	2.225	0.456	1.240
498T	1.616	1.688	1.580	0.933	1.166	0.542	1.005	1.688	0.542	1.218
499S	2.558	0.992	1.636	1.204	1.166	0.538	0.754	2.558	0.538	1.264
500P	2.279	0.041	1.646	1.577	1.185	1.138	0.861	2.279	0.041	1.247
501D	1.337	0.257	1.571	1.561	1.239	1.143	1.296	1.571	0.257	1.201
502G	0.775	-0.456	1.253	1.292	1.075	1.125	1.844	1.844	-0.456	0.987
503H	0.857	-1.180	1.431	0.497	1.285	1.704	1.658	1.704	-1.180	0.893
504L	0.142	-0.695	1.122	-0.264	0.966	1.689	1.689	1.689	-0.695	0.664
505V	-0.724	-0.897	0.730	-1.140	0.638	1.202	2.287	2.287	-1.140	0.299
506E	-0.591	-0.442	1.066	-1.461	1.048	1.802	2.260	2.260	-1.461	0.526
507F	-0.844	-0.659	1.160	-1.719	1.112	1.201	2.325	2.325	-1.719	0.368
508V	-0.129	0.055	1.487	-1.509	1.376	1.215	2.110	2.110	-1.509	0.658
509E	0.237	0.964	1.851	-1.195	1.658	1.232	1.741	1.851	-1.195	0.927
510Y	0.376	0.479	1.795	-0.469	1.613	1.121	1.758	1.795	-0.469	0.953
511P	1.224	1.245	2.290	0.114	2.132	1.742	1.506	2.290	0.114	1.465
512P	1.590	0.712	2.571	0.885	2.315	2.360	1.185	2.571	0.712	1.660
513D	1.230	0.257	2.487	1.222	2.224	1.780	1.431	2.487	0.257	1.519
514R	0.768	-0.378	2.169	1.453	1.941	1.764	1.350	2.169	-0.378	1.295
515H	0.402	-0.564	1.804	1.278	1.658	1.747	1.719	1.804	-0.564	1.149
516P	0.035	-0.164	1.440	0.848	1.376	1.730	2.088	2.088	-0.164	1.050
517F	-0.237	-0.032	1.160	-0.084	1.011	1.241	2.097	2.097	-0.237	0.737
518V	-0.174	0.143	0.926	-0.738	0.692	0.636	2.139	2.139	-0.738	0.518
519V	0.073	0.329	1.094	-1.241	0.893	0.059	2.035	2.035	-1.241	0.463
520G	0.073	0.784	0.851	-1.191	0.619	0.040	0.805	0.851	-1.191	0.283
521T	0.787	0.732	1.075	-0.644	0.838	0.655	0.821	1.075	-0.644	0.609
522Q	1.154	0.037	1.440	-0.019	1.121	0.673	0.452	1.440	-0.019	0.694
523A	1.881	0.377	1.889	0.534	1.494	1.271	-0.163	1.889	-0.163	1.040
524H	0.939	1.233	1.814	0.655	1.549	1.276	0.272	1.814	0.272	1.105

525P	0.971	1.956	2.066	0.156	2.032	1.851	0.296	2.066	0.156	1.333
526E	1.002	1.956	1.889	-0.554	1.813	1.828	0.293	1.956	-0.554	1.175
527L	1.135	1.872	2.318	-1.123	2.287	2.453	1.302	2.453	-1.123	1.463
528K	1.135	2.890	2.403	-1.183	2.388	1.852	1.254	2.890	-1.183	1.534
529S	1.331	2.417	2.356	-0.846	2.269	1.853	1.075	2.417	-0.846	1.494
530R	1.103	1.652	2.459	-0.532	2.379	1.878	1.101	2.459	-0.532	1.434
531P	1.818	1.197	2.786	-0.420	2.643	1.892	0.886	2.786	-0.420	1.543
532T	1.590	0.634	2.496	-0.102	2.178	1.917	1.088	2.496	-0.102	1.400
533R	1.312	-0.032	2.589	0.257	2.296	1.916	1.148	2.589	-0.032	1.355
534P	0.465	-0.941	2.075	0.862	1.832	1.297	1.584	2.075	-0.941	1.025
535H	-0.250	-1.300	1.767	1.113	1.513	1.282	1.615	1.767	-1.300	0.820
536P	-0.812	-1.564	1.449	0.704	1.349	1.264	2.163	2.163	-1.564	0.650
537L	-0.945	-2.019	1.019	-0.067	0.875	0.639	1.154	1.154	-2.019	0.094
538F	-1.660	-1.188	0.711	-0.827	0.556	0.624	1.185	1.185	-1.660	-0.085
539V	-2.026	-1.013	0.431	-1.349	0.373	0.006	1.506	1.506	-2.026	-0.296
540A	-1.799	-0.917	0.178	-1.468	0.054	-0.013	1.287	1.287	-1.799	-0.382
541F	-1.084	-1.242	0.262	-1.477	0.045	-0.019	-0.158	0.262	-1.477	-0.525
542V	-0.370	-0.528	0.328	-1.620	0.091	-0.023	-1.420	0.328	-1.620	-0.506
543G	-0.642	-0.839	0.309	-1.880	0.082	-0.023	-1.687	0.309	-1.880	-0.668
544A	-0.142	-0.635	0.580	-1.844	0.401	0.466	-0.686	0.580	-1.844	-0.266
545A	0.319	-0.635	0.898	-1.727	0.683	0.481	-0.605	0.898	-1.727	-0.084
546I	0.914	-0.007	1.468	-1.285	1.330	1.075	-1.128	1.468	-1.285	0.338
547D	0.686	0.892	1.477	-1.017	1.376	1.075	-2.139	1.477	-2.139	0.336
548Y	0.914	0.149	1.468	-1.037	1.330	1.075	-1.128	1.468	-1.128	0.396
549K	1.274	0.351	1.795	-1.450	1.695	1.674	-0.144	1.795	-1.450	0.742
550A	1.198	-0.122	1.851	-1.800	1.722	1.678	-0.031	1.851	-1.800	0.642
551G	-0.016	-0.218	1.496	-2.191	1.412	1.194	0.413	1.496	-2.191	0.299
552E	0.237	-0.270	1.487	-2.137	1.449	1.194	0.301	1.487	-2.137	0.323
553L	-0.357	-1.170	0.917	-1.992	0.802	0.601	0.824	0.917	-1.992	-0.054
554L	0.003	-0.607	1.244	-1.739	1.166	1.200	1.808	1.808	-1.739	0.439
555P	-0.863	0.173	1.113	-1.702	1.194	1.202	2.130	2.130	-1.702	0.464
556V	-1.223	-0.510	1.029	-1.678	1.103	0.622	2.376	2.376	-1.678	0.245
557E	-0.148	-0.056	1.440	-1.858	1.458	1.216	1.914	1.914	-1.858	0.567
558I	-0.073	-0.056	1.384	-1.909	1.431	1.212	1.801	1.801	-1.909	0.542
559P	-0.073	0.359	1.384	-1.851	1.431	1.212	1.801	1.801	-1.851	0.609
560E	0.655	0.491	1.832	-1.746	1.804	1.810	1.186	1.832	-1.746	0.862
561I	0.294	0.275	1.664	-1.269	1.613	1.830	1.480	1.830	-1.269	0.841
562P	1.129	1.209	2.001	-0.599	1.786	1.849	1.199	2.001	-0.599	1.225
563E	1.129	1.477	2.001	0.274	1.786	1.849	1.199	2.001	0.274	1.388
564H	1.078	1.758	1.973	1.268	1.731	1.290	1.112	1.973	1.078	1.459
565T	1.944	2.523	2.103	1.880	1.704	1.288	0.791	2.523	0.791	1.748
566P	2.222	2.122	2.010	2.137	1.586	1.289	0.731	2.222	0.731	1.728
567N	2.140	2.577	1.832	2.248	1.376	0.709	0.917	2.577	0.709	1.686
568G	2.140	2.507	1.832	2.282	1.376	0.709	0.917	2.507	0.709	1.681
569S	2.077	2.507	2.066	2.203	1.695	1.314	0.875	2.507	0.875	1.820
570S	2.577	1.555	2.094	2.328	1.741	1.784	0.646	2.577	0.646	1.818
571H	2.494	1.327	1.786	1.812	1.385	1.743	0.760	2.494	0.760	1.615
572R	1.900	1.728	1.674	1.281	1.422	1.745	1.348	1.900	1.281	1.585
573D	1.849	1.273	1.515	0.315	1.221	1.725	1.188	1.849	0.315	1.298
574G	1.818	0.529	1.692	-0.400	1.440	1.747	1.192	1.818	-0.400	1.145
575V	1.818	0.261	1.776	-0.908	1.540	1.146	1.145	1.818	-0.908	0.968
576G	0.971	0.932	1.262	-0.889	1.075	0.527	1.580	1.580	-0.889	0.780
577Q	0.471	0.664	1.234	-0.742	1.030	0.057	1.809	1.809	-0.742	0.646
578P	0.604	0.173	1.571	-0.621	1.440	0.657	1.783	1.783	-0.621	0.801
579L	0.971	0.670	1.935	-0.512	1.722	0.674	1.414	1.935	-0.512	0.982
580P	0.743	1.688	1.945	-0.651	1.768	0.674	0.403	1.945	-0.651	0.939
581E	0.775	1.956	1.767	-0.501	1.549	0.652	0.400	1.956	-0.501	0.943
582P	0.907	1.635	1.954	-0.543	1.750	1.258	0.179	1.954	-0.543	1.020
583A	1.849	1.531	2.029	-0.411	1.695	1.252	-0.255	2.029	-0.411	1.099

584S	**1.717**	**1.786**	**1.328**	**-0.631**	**1.741**	**1.293**	**-1.486**	**1.786**	**-1.486**	**0.821**
585R	**1.224**	**1.185**	**0.543**	**-0.748**	**1.695**	**0.754**	**-2.469**	**1.695**	**-2.469**	**0.312**
586G	**1.091**	**0.626**	**-0.158**	**-0.930**	**1.741**	**0.795**	**-3.699**	**1.741**	**-3.699**	**-0.077**

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]MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHG EVFVTEDGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKR RILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGEL KTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREEL DAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHETVRIALVGKYVELSDAYLSVAEALRAGGFKHRA KVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVI EAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQT TQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPT RPHPLFVAFVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG[586]
Hydrophilicity	[1]MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHG EVFVTEDGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKR RILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGEL KTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREEL DAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHETVRIALVGKYVELSDAYLSVAEALRAGGFKHRA KVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVI EAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQT TQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPT RPHPLFVAFVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG[586]
Flexibility	[1]MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHG EVFVTEDGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKR RILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGEL KTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREEL DAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHETVRIALVGKYVELSDAYLSVAEALRAGGFKHRA KVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVI EAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQT TQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPT RPHPLFVAFVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG[586]
Accessibility	[1]MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHG EVFVTEDGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKR RILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGEL

	KTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREELDAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHETVRIALVGKYVELSDAYLSVAEALRAGGFKHRAKVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVIEAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQTTQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPTRPHPLFVAFVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG[586]
Turns	[1]MRKHPQTATKHLFVSGGVASSLGKGLTASSLGQLLTARGLHVTMQKLDPYLNVDPGTMNPFQHGEVFVTEDGAETDLDVGHYERFLDRNLPGSANVTTGQVYSTVIAKERRGEYLGDTVQVIPHITDEIKRRILAMAQPDADGNRPDVVITEIGGTVGDIESQPFLEAARQVRHYLGREDVFFLHVSLVPYLAPSGELKTKPTQHSVAALRSIGITPDALILRCDRDVPEALKNKIALMCDVDIDGVISTPDAPSIYDIPKVLHREELDAFVVRRLNLPFRDVDWTEWDDLLRRVHEPHETVRIALVGKYVELSDAYLSVAEALRAGGFKHRAKVEICWVASDGCETTSGAAAALGDVHGVLIPGGFGIRGIEGKIGAIAYARARGLPVLGLCLGLQCIVIEAARSVGLTNANSAEFDPDTPDPVIATMPDQEEIVAGEADLGGTMRLGSYPAVLEPDSVVAQAYQTTQVSERHRHRYEVNNAYRDKIAESGLRFSGTSPDGHLVEFVEYPPDRHPFVVGTQAHPELKSRPTRPHPLFVAFVGAAIDYKAGELLPVEIPEIPEHTPNGSSHRDGVGQPLPEPASRG[586]
Exposed Surface	[1]