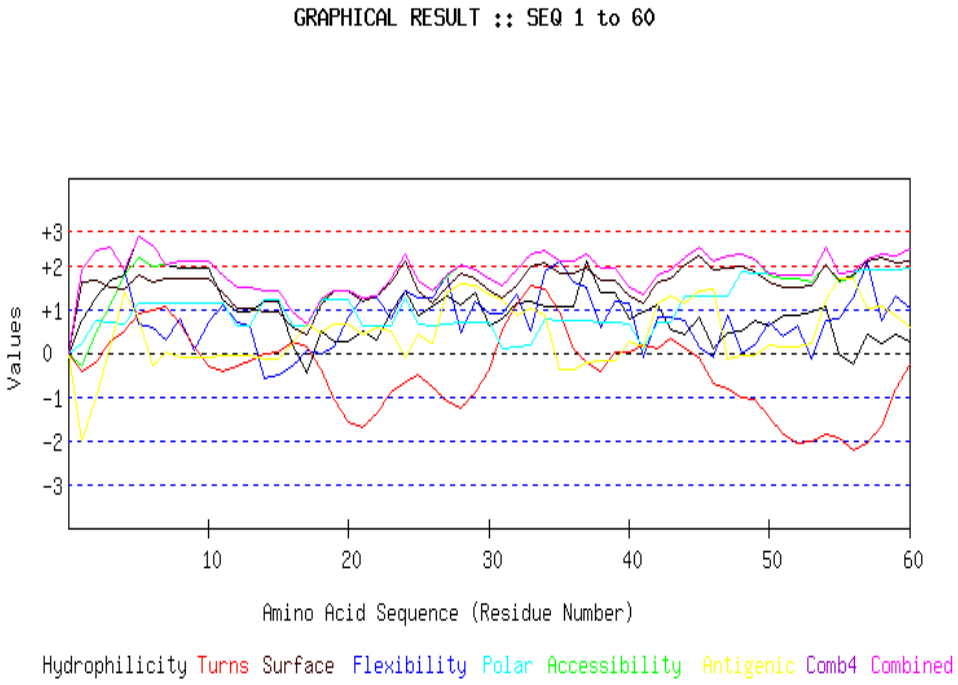
BcePred Prediction Server

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

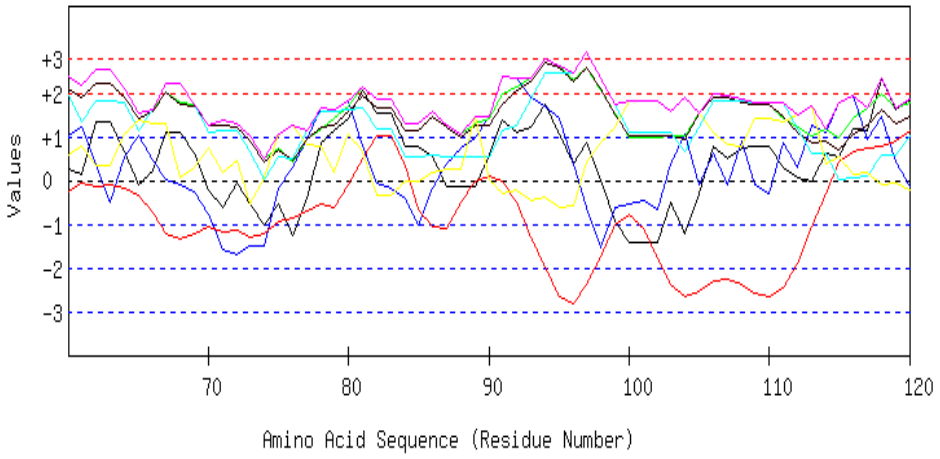
seqname=
Seq=VTTSESPDAYTESFGAHTIVKPAGPPRVGQPSWNPQRASSMPVNRYRPFAEEVEPIRLRNRTWPDRVIDR
APLWCAVDLRDGNQALIDPMSPARKRRMFDLLVRMGYKEIEVGFPSASQTDFDFVREIIEQGAIPDDVTIQVLTQC
RPELIERTFQACSGAPRAIVHFYNSTSILQRRVVFRANRAEVQAIATDGARKCVEQAAKYPGTQWRFEYSPESYT
GTELEYAKQVCDAVGEVIAPTPERPIIFNLPATVEMTTPNVYADSIEWMSRNLANRESVILSLHPHNDRGTAVAAAE
LGFAAGADRIEGCLFGNGERTGNVCLVTLGLNLFSRGVDPQIDFSNIDEIRRTVEYCNQLPVHERHPYGGDLVYT
AFSGSHQDAINKGLDAMKLDADAADCDVDDMLWQVPYLPIDPRDVGRTYEAVIRVNSQSGKGGVAYIMKTDHGL
SLPRRLQIEFSQVIQKIAEGTAGEGGEVSPKEMWDAFAEEYLAPVRPLERIRQHVDAADDDGGTTSITATVKINGV
ETEISGSGNGPLAAFVHALADVGFDVAVLDYYEHAMSAGDDAQAAAYVEASVTIASPAQPGEAGRHASDPVTIAS
PAQPGEAGRHASDPVTSKTVWGVGIAPSITTASLRAVVSAVNRAAR

Length=644

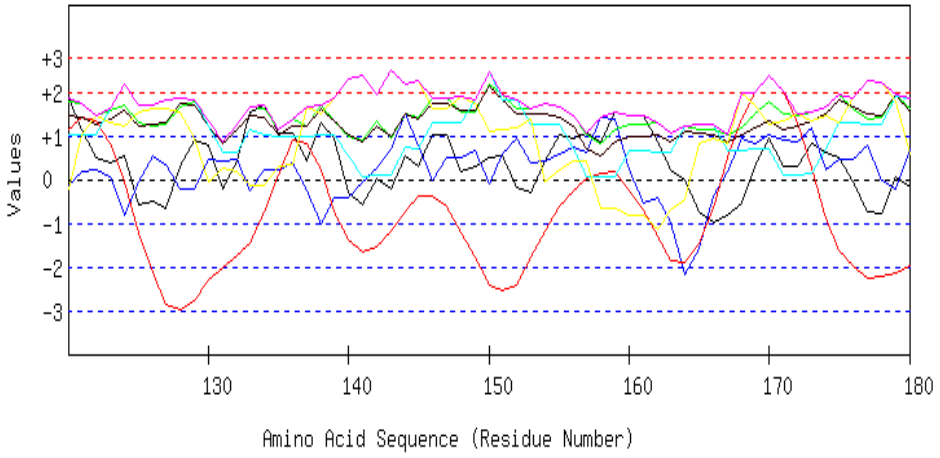
GRAPHICAL RESULT



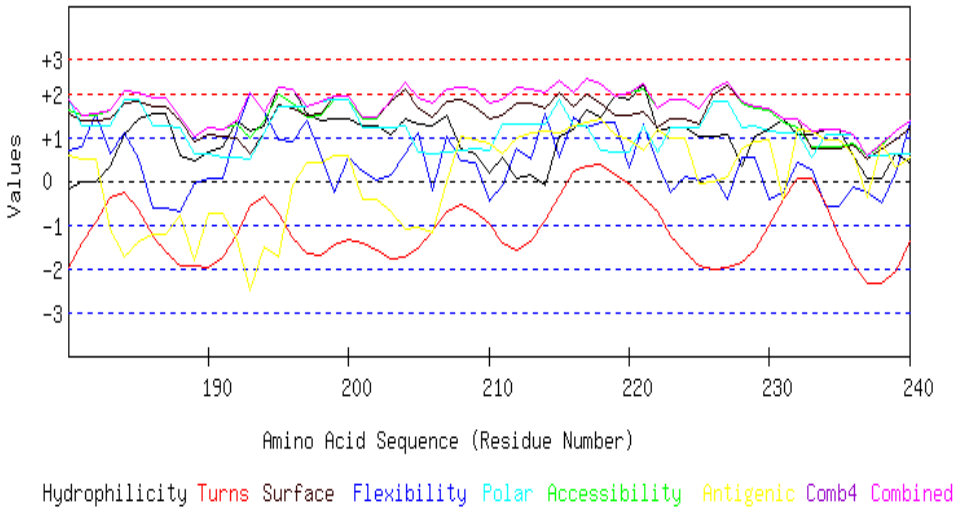
GRAPHICAL RESULT :: SEQ 61 to 120



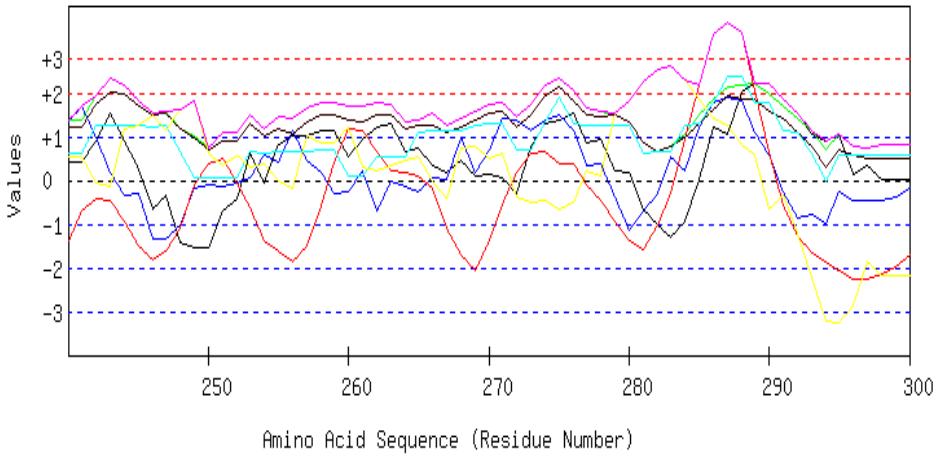
GRAPHICAL RESULT :: SEQ 121 to 180



GRAPHICAL RESULT :: SEQ 181 to 240

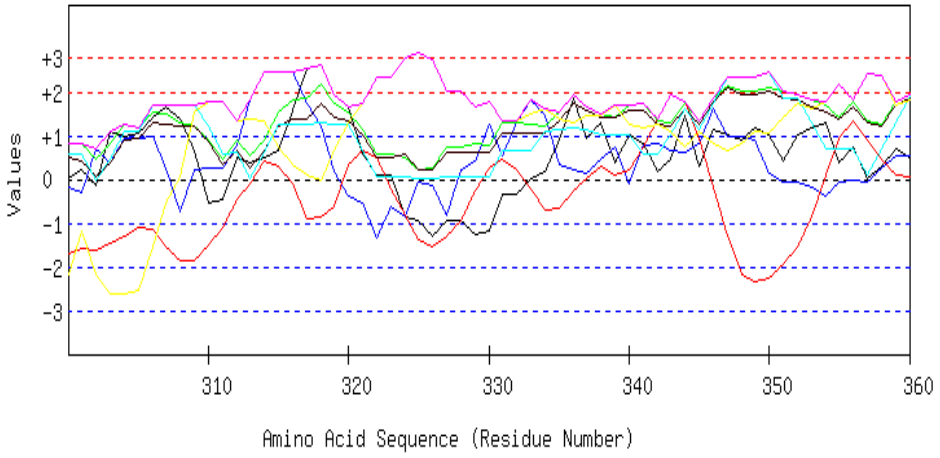


GRAPHICAL RESULT :: SEQ 241 to 300



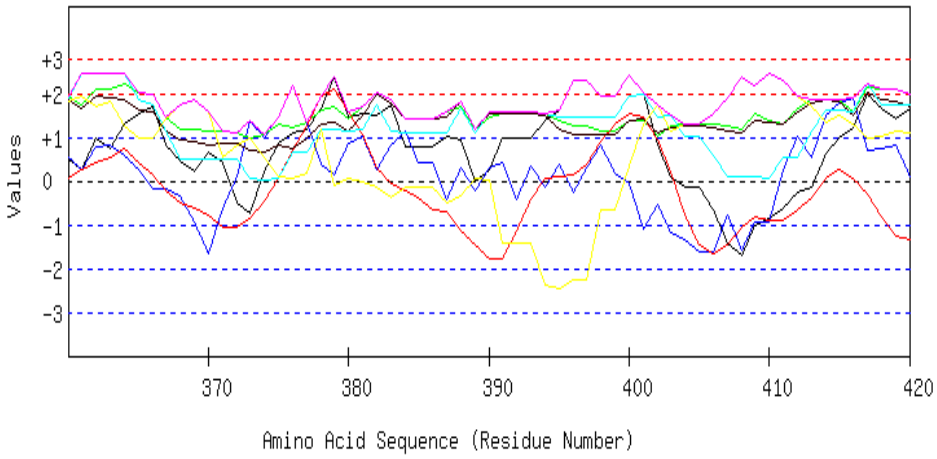
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360

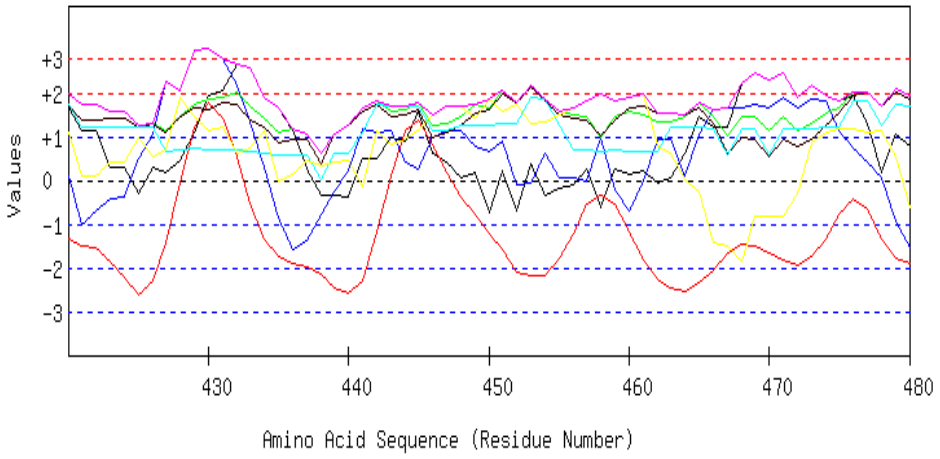


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420

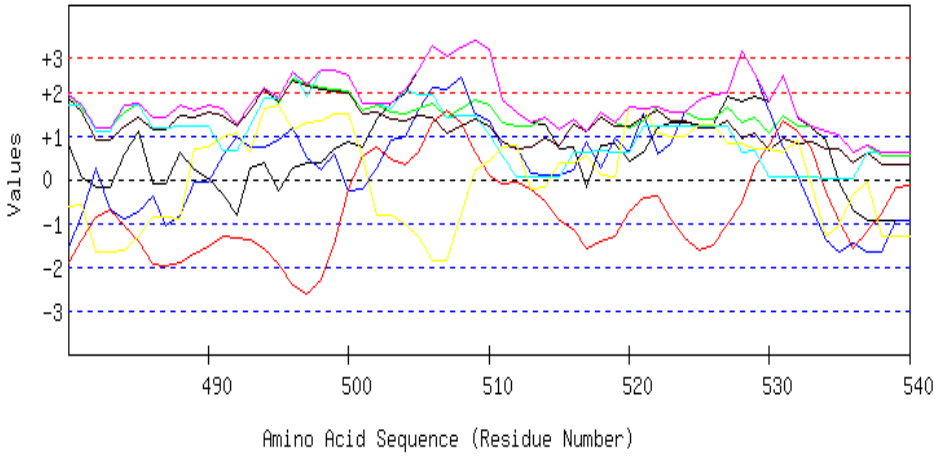


GRAPHICAL RESULT :: SEQ 421 to 480



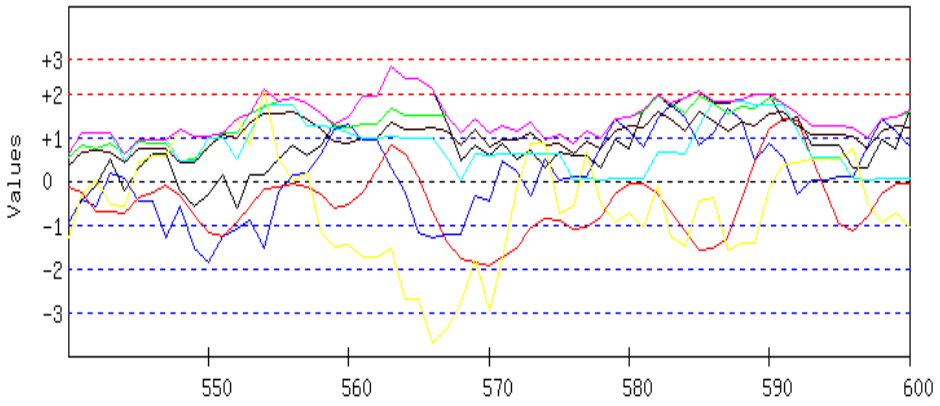
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



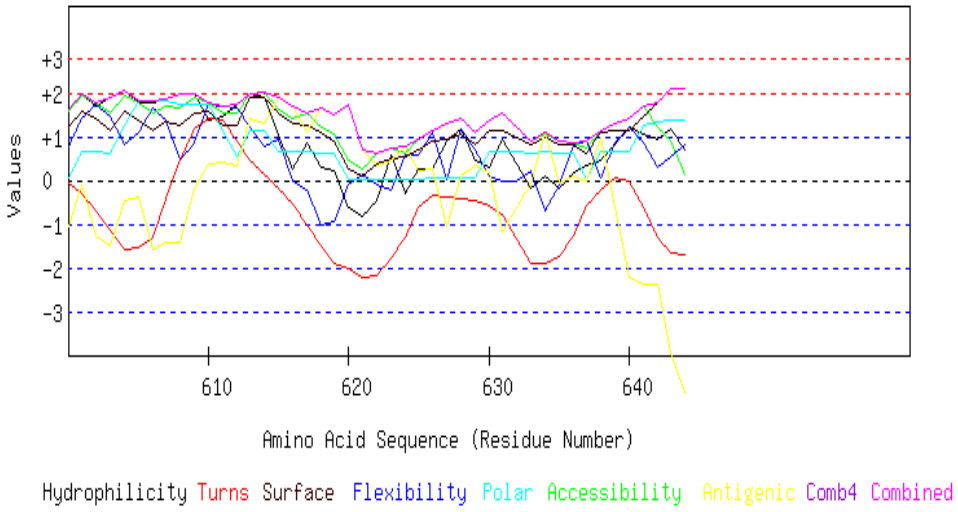
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 601 to 660



TOP

TABULAR RESULT

Selected Programs: hydro flexi access turns surface polar antipro

Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9

VTTSESPDAYTESFGAHTIVKPAGPPRVGQPSWNPQRASSMPVNRYRPFAEEVEPIRLRN
RTWPDRVIDRAPLWCAVDLRDGNQALIDPMSPARKRRMFDLLVRMGYKEIEVGFPSASQT
DFDFVREIIEQGAIPDDVTIQVLTQCRPELIERTFQACSGAPRAIVHFYNSTSILQRRVV
FRANRAEVQAIATDGARKCVEQAAKYPGTQWRFEYSPESYTGTELEYAKQVCDAVGEVIA
PTPERPIIFNLPATVEMTTPNVYADSIEWMSRNLANRESVILSLHPHNDRGTAVAAAELG
FAAGADRIEGCLFGNGERTGNVCLVTLGLNLFSRGVDPQIDFSNIDEIRRTVEYCNQLPV
HERHPYGGDLVYTAFSGSHQDAINKGLDAMKLDADAADCDVDDMLWQVPYLPIDPRDVGR
TYEAVIRVNSQSGKGGVAYIMKTDHGLSLPRRLQIEFSQVIQKIAEGTAGEGGEVSPKEM
WDAFAEEYLAPVRPLERIRQHVDAADDDGGTTSITATVKINGVETEISGSGNGPLAAFVH
ALADVGFDVAVLDYYEHAMSAGDDAQAAAYVEASVTIASPAQPGEAGRHASDPVTIASPA
QPGEAGRHASDPVTSKTVWGVGIAPSITTASLRAVVSAVNRAAR

Length=644

A.A.	Parameter									Combined
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 V	0.756	1.898	-0.308	-0.440	1.613	0.212	-2.018	1.898	-2.018	0.245
2 T	1.249	2.353	0.477	-0.219	1.658	0.751	-1.035	2.353	-1.035	0.748
3 T	1.660	2.401	1.085	0.241	1.494	0.711	0.135	2.401	0.135	1.104
4 S	1.793	1.910	1.786	0.487	1.449	0.670	1.365	1.910	0.487	1.351
5 E	2.659	0.648	2.178	0.893	1.777	1.157	0.768	2.659	0.648	1.440
6 S	2.463	0.564	1.982	0.995	1.622	1.137	-0.283	2.463	-0.283	1.211
7 P	2.014	0.283	2.038	1.065	1.704	1.137	0.008	2.038	0.008	1.178
8 D	1.932	0.780	2.085	0.677	1.704	1.137	-0.111	2.085	-0.111	1.172
9 A	1.932	0.067	2.085	0.151	1.704	1.137	-0.111	2.085	-0.111	0.995
10 Y	1.932	0.694	2.085	-0.317	1.704	1.137	-0.111	2.085	-0.317	1.018
11 T	1.217	1.101	1.776	-0.403	1.385	1.122	-0.080	1.776	-0.403	0.874
12 E	0.945	0.700	1.496	-0.295	1.020	0.633	-0.070	1.496	-0.295	0.633
13 S	0.945	0.616	1.496	-0.183	1.020	0.633	-0.070	1.496	-0.183	0.637
14 F	1.198	-0.564	1.403	-0.002	0.957	1.233	-0.135	1.403	-0.564	0.584
15 G	1.198	-0.486	1.403	0.037	0.957	1.233	-0.135	1.403	-0.486	0.601
16 A	0.199	-0.282	0.935	0.256	0.574	0.636	0.213	0.935	-0.282	0.362
17 H	-0.446	0.077	0.664	0.145	0.410	0.617	0.642	0.664	-0.446	0.301
18 T	0.496	-0.013	1.178	-0.366	1.093	1.208	0.456	1.208	-0.366	0.579
19 I	0.269	0.123	1.431	-1.063	1.412	1.227	0.675	1.431	-1.063	0.582
20 V	0.269	0.806	1.431	-1.561	1.412	1.227	0.675	1.431	-1.561	0.608
21 K	0.496	1.261	1.262	-1.692	1.194	0.607	0.408	1.262	-1.692	0.505
22 P	0.300	1.243	1.309	-1.368	1.312	0.606	0.587	1.312	-1.368	0.570
23 A	0.939	0.788	1.692	-0.886	1.604	0.623	0.486	1.692	-0.886	0.749
24 G	1.438	1.415	2.244	-0.654	2.087	1.246	-0.104	2.244	-0.654	1.096
25 P	0.844	1.279	1.674	-0.518	1.440	0.653	0.420	1.674	-0.518	0.827
26 P	1.072	1.279	1.421	-0.789	1.121	0.634	0.200	1.421	-0.789	0.705
27 R	1.318	1.776	1.748	-1.101	1.494	0.676	1.373	1.776	-1.101	1.041
28 V	1.091	0.459	2.001	-1.245	1.813	0.695	1.593	2.001	-1.245	0.915
29 G	1.369	1.165	1.907	-0.887	1.695	0.697	1.533	1.907	-0.887	1.068
30 Q	0.604	0.896	1.683	-0.375	1.440	0.703	1.335	1.683	-0.375	0.898
31 P	0.781	0.896	1.552	0.533	1.276	0.119	1.223	1.552	0.119	0.911
32 S	1.148	1.351	1.917	1.081	1.558	0.136	0.854	1.917	0.136	1.149
33 W	1.167	0.495	2.253	1.538	1.977	0.179	1.017	2.253	0.179	1.232
34 N	1.053	1.854	2.356	1.460	2.078	0.761	0.853	2.356	0.761	1.488
35 P	1.053	2.100	2.113	0.949	1.804	0.742	-0.377	2.113	-0.377	1.198
36 Q	1.053	1.627	2.113	0.112	1.804	0.742	-0.377	2.113	-0.377	1.011
37 R	2.096	1.495	2.244	-0.228	1.941	0.737	-0.239	2.244	-0.239	1.149
38 A	1.388	0.586	1.935	-0.410	1.677	0.713	-0.181	1.935	-0.410	0.815
39 S	1.388	1.195	1.935	0.007	1.677	0.713	-0.181	1.935	-0.181	0.962
40 S	0.775	1.153	1.487	0.022	1.294	0.672	0.244	1.487	0.022	0.807
41 M	0.952	-0.110	1.356	0.183	1.130	0.088	0.132	1.356	-0.110	0.533
42 P	1.084	0.818	1.786	0.114	1.604	0.713	1.141	1.786	0.114	1.037
43 V	0.553	0.818	1.889	0.321	1.686	0.712	1.313	1.889	0.321	1.042
44 N	0.408	0.740	2.169	0.119	2.005	1.317	1.153	2.169	0.119	1.130
45 R	0.806	0.131	2.421	-0.086	2.233	1.319	1.428	2.421	-0.086	1.179
46 Y	0.092	-0.108	2.113	-0.684	1.914	1.304	1.459	2.113	-0.684	0.870
47 R	0.459	0.874	2.234	-0.808	1.923	1.302	-0.140	2.234	-0.808	0.835
48 P	0.509	-0.036	2.262	-1.016	1.977	1.861	-0.053	2.262	-1.016	0.787
49 F	0.737	0.181	2.160	-1.046	1.868	1.836	-0.079	2.160	-1.046	0.808
50 A	0.623	0.714	1.786	-1.461	1.622	1.818	0.178	1.818	-1.461	0.754
51 E	0.850	0.389	1.683	-1.879	1.513	1.793	0.153	1.793	-1.879	0.643
52 E	0.850	0.628	1.683	-2.048	1.513	1.793	0.153	1.793	-2.048	0.653
53 V	0.926	-0.152	1.608	-2.039	1.540	1.791	0.223	1.791	-2.039	0.557
54 E	1.059	0.758	2.038	-1.871	2.014	2.416	1.232	2.416	-1.871	1.092

55 P	-0.016	0.792	1.627	-1.939	1.658	1.821	1.694	1.821	-1.939	0.805
56 I	-0.243	1.247	1.730	-2.201	1.768	1.846	1.719	1.846	-2.201	0.838
57 R	0.433	2.062	2.150	-2.060	2.087	1.886	1.017	2.150	-2.060	1.082
58 L	0.206	0.746	2.253	-1.651	2.196	1.911	1.043	2.253	-1.651	0.958
59 R	0.402	1.309	2.206	-0.827	2.078	1.912	0.864	2.206	-0.827	1.135
60 N	0.275	1.034	2.365	-0.266	2.114	1.935	0.564	2.365	-0.266	1.146
61 R	0.142	1.239	2.178	-0.065	1.914	1.329	0.785	2.178	-0.065	1.075
62 T	1.356	0.329	2.533	-0.151	2.224	1.813	0.341	2.533	-0.151	1.207
63 W	1.356	-0.486	2.533	-0.089	2.224	1.813	0.341	2.533	-0.486	1.099
64 P	0.680	0.556	2.113	-0.170	1.905	1.774	1.043	2.113	-0.170	1.128
65 D	-0.092	1.010	1.543	-0.341	1.412	1.151	1.365	1.543	-0.341	0.864
66 R	0.212	0.471	1.617	-0.754	1.576	1.620	1.316	1.620	-0.754	0.866
67 V	1.110	0.017	2.029	-1.233	2.032	2.219	1.293	2.219	-1.233	1.067
68 I	1.110	-0.092	1.786	-1.325	1.759	2.200	0.062	2.200	-1.325	0.786
69 D	0.610	-0.270	1.758	-1.225	1.713	1.730	0.291	1.758	-1.225	0.658
70 R	-0.237	-0.773	1.244	-1.052	1.248	1.111	0.727	1.248	-1.052	0.324
71 A	-0.635	-1.586	1.384	-1.166	1.276	1.135	0.161	1.384	-1.586	0.081
72 P	-0.041	-1.682	1.309	-1.129	1.203	1.151	0.461	1.309	-1.682	0.182
73 L	-0.540	-1.502	1.038	-1.294	0.884	0.662	-0.540	1.038	-1.502	-0.185
74 W	-1.040	-1.502	0.487	-1.214	0.401	0.039	0.050	0.487	-1.502	-0.397
75 C	-0.540	-0.186	0.758	-0.953	0.720	0.528	1.051	1.051	-0.953	0.197
76 A	-1.255	0.317	0.431	-0.856	0.455	0.514	1.266	1.266	-1.255	0.125
77 V	-0.408	0.944	0.945	-0.718	0.920	1.133	0.830	1.133	-0.718	0.521
78 D	0.857	1.650	1.197	-0.545	1.221	1.597	0.799	1.650	-0.545	0.968
79 L	1.129	1.601	1.403	-0.613	1.267	1.579	0.177	1.601	-0.613	0.935
80 R	1.438	1.806	1.702	-0.111	1.576	1.620	1.074	1.806	-0.111	1.301
81 D	2.052	0.788	2.150	0.506	1.959	1.661	0.649	2.150	0.506	1.395
82 G	1.552	-0.076	1.879	1.029	1.640	1.172	-0.353	1.879	-0.353	0.978
83 N	1.552	-0.164	1.879	1.040	1.640	1.172	-0.353	1.879	-0.353	0.967
84 Q	0.781	-0.414	1.309	0.332	1.148	0.549	-0.030	1.309	-0.414	0.525
85 A	0.781	-1.019	1.309	-0.677	1.148	0.549	-0.030	1.309	-1.019	0.294
86 L	0.553	-0.164	1.561	-1.072	1.467	0.568	0.190	1.561	-1.072	0.443
87 I	-0.155	0.399	1.253	-1.101	1.203	0.545	0.247	1.253	-1.101	0.342
88 D	-0.123	0.724	1.075	-0.485	0.984	0.522	0.244	1.075	-0.485	0.420
89 P	-0.123	0.998	1.318	-0.022	1.257	0.541	1.474	1.474	-0.123	0.778
90 M	0.591	1.471	1.403	0.107	1.248	0.536	0.029	1.471	0.029	0.769
91 S	1.363	2.399	1.973	-0.000	1.741	1.159	-0.294	2.399	-0.294	1.191
92 P	1.091	2.357	2.150	-0.520	2.060	1.264	-0.220	2.357	-0.520	1.169
93 A	1.224	1.884	2.337	-1.281	2.260	1.870	-0.440	2.337	-1.281	1.122
94 R	1.755	1.710	2.776	-1.974	2.688	2.478	-0.386	2.776	-1.974	1.292
95 K	1.078	1.435	2.617	-2.652	2.579	2.475	-0.601	2.617	-2.652	0.990
96 R	0.364	0.399	2.309	-2.817	2.260	2.460	-0.570	2.460	-2.817	0.629
97 R	0.863	-0.619	2.580	-2.399	2.579	2.949	0.431	2.949	-2.399	0.912
98 M	0.016	-1.528	2.066	-1.739	2.114	2.330	0.867	2.330	-1.739	0.589
99 F	-0.926	-0.601	1.533	-1.033	1.485	1.740	1.237	1.740	-1.033	0.491
100D	-1.426	-0.540	0.982	-0.770	1.002	1.117	1.827	1.827	-1.426	0.313
101L	-1.426	-0.452	0.982	-1.107	1.002	1.117	1.827	1.827	-1.426	0.278
102L	-1.426	-0.655	0.982	-1.797	1.002	1.117	1.827	1.827	-1.797	0.150
103V	-0.484	0.381	1.038	-2.368	1.002	1.113	1.576	1.576	-2.368	0.323
104R	-1.236	1.052	1.019	-2.657	0.920	0.643	1.917	1.917	-2.657	0.237
105M	-0.294	-0.086	1.552	-2.525	1.549	1.233	1.547	1.552	-2.525	0.425
106G	0.781	0.604	1.963	-2.308	1.905	1.827	1.086	1.963	-2.308	0.837
107Y	0.509	-0.120	1.945	-2.258	1.895	1.827	0.819	1.945	-2.258	0.660
108K	0.737	0.914	1.842	-2.368	1.786	1.802	0.793	1.842	-2.368	0.787
109E	0.768	-0.092	1.730	-2.578	1.731	1.786	1.437	1.786	-2.578	0.683
110I	0.768	-0.308	1.730	-2.676	1.731	1.786	1.437	1.786	-2.676	0.638
111E	0.307	0.872	1.412	-2.478	1.449	1.771	1.356	1.771	-2.478	0.670
112V	0.079	0.297	1.206	-1.903	1.084	1.196	1.511	1.511	-1.903	0.496
113G	-0.003	1.249	1.029	-1.060	0.875	0.616	1.697	1.697	-1.060	0.629

114F	0.636	1.113	1.169	-0.288	0.893	0.614	0.365	1.169	-0.288	0.643
115P	0.553	1.778	0.991	0.406	0.683	0.035	0.551	1.778	0.035	0.714
116S	1.167	1.958	1.440	0.662	1.066	0.076	0.126	1.958	0.076	0.928
117A	1.135	0.928	1.646	0.733	1.267	0.096	0.166	1.646	0.096	0.853
118S	2.349	1.467	1.982	0.775	1.631	0.580	-0.094	2.349	-0.094	1.242
119Q	1.634	0.437	1.674	0.885	1.312	0.565	-0.062	1.674	-0.062	0.921
120T	1.856	-0.150	1.795	1.143	1.476	1.034	-0.231	1.856	-0.231	0.989
121D	1.141	0.173	1.730	1.427	1.431	1.039	1.030	1.730	0.173	1.139
122F	0.496	0.209	1.459	1.333	1.267	1.020	1.459	1.459	0.209	1.035
123D	0.383	0.059	1.561	0.831	1.367	1.602	1.295	1.602	0.059	1.014
124F	0.547	-0.805	1.692	-0.043	1.576	2.182	1.228	2.182	-0.805	0.911
125V	-0.591	-0.056	1.281	-1.232	1.239	1.695	1.558	1.695	-1.232	0.556
126R	-0.515	0.532	1.206	-2.160	1.267	1.692	1.629	1.692	-2.160	0.522
127E	-0.654	0.345	1.262	-2.855	1.312	1.803	1.612	1.803	-2.855	0.404
128I	0.307	-0.230	1.655	-2.997	1.731	1.841	1.524	1.841	-2.997	0.547
129I	0.901	-0.230	1.767	-2.775	1.695	1.840	0.935	1.840	-2.775	0.590
130E	0.768	0.453	1.337	-2.306	1.221	1.215	-0.074	1.337	-2.306	0.374
131Q	-0.231	0.417	0.870	-2.002	0.838	0.617	0.274	0.870	-2.002	0.112
132G	0.408	0.465	1.253	-1.758	1.130	0.634	0.172	1.253	-1.758	0.329
133A	1.546	-0.258	1.664	-1.476	1.467	1.122	-0.158	1.664	-1.476	0.558
134I	1.685	0.233	1.608	-0.746	1.422	1.011	-0.141	1.685	-0.746	0.725
135P	1.072	0.233	1.160	0.113	1.039	0.970	0.284	1.160	0.113	0.696
136D	1.040	0.365	1.365	0.916	1.239	0.990	0.325	1.365	0.325	0.892
137D	0.402	-0.270	1.225	0.802	1.221	0.992	1.657	1.657	-0.270	0.861
138V	1.287	-1.013	1.692	0.224	1.613	1.032	1.498	1.692	-1.013	0.905
139T	0.920	-0.426	1.328	-0.737	1.330	1.015	1.867	1.867	-0.737	0.757
140I	-0.294	-0.426	0.973	-1.383	1.020	0.531	2.311	2.311	-1.383	0.390
141Q	-0.597	-0.066	0.898	-1.677	0.856	0.062	2.361	2.361	-1.677	0.262
142V	0.016	0.257	1.346	-1.528	1.239	0.103	1.935	1.935	-1.528	0.481
143L	-0.224	0.712	0.935	-1.196	0.993	0.101	2.517	2.517	-1.196	0.548
144T	0.547	1.491	1.505	-0.760	1.485	0.724	2.194	2.194	-0.760	1.027
145Q	0.300	0.796	1.421	-0.388	1.385	0.701	2.251	2.251	-0.388	0.924
146C	1.028	-0.019	1.870	-0.382	1.759	1.299	1.636	1.870	-0.382	1.027
147R	1.028	0.519	1.870	-0.602	1.759	1.299	1.636	1.870	-0.602	1.073
148P	0.193	0.519	1.533	-1.205	1.586	1.280	1.917	1.917	-1.205	0.832
149E	0.307	0.652	1.533	-1.773	1.576	1.838	1.727	1.838	-1.773	0.837
150L	0.484	-0.098	2.178	-2.421	2.142	2.444	1.104	2.444	-2.421	0.833
151I	0.547	0.598	1.945	-2.550	1.823	1.840	1.146	1.945	-2.550	0.764
152E	-0.167	0.922	1.636	-2.413	1.504	1.825	1.177	1.825	-2.413	0.641
153R	-0.281	0.383	1.636	-1.768	1.513	1.268	1.366	1.636	-1.768	0.588
154T	0.433	0.425	1.720	-1.174	1.504	1.262	-0.079	1.720	-1.174	0.585
155F	1.028	0.562	1.646	-0.620	1.431	1.278	0.222	1.646	-0.620	0.792
156Q	0.945	0.736	1.468	-0.262	1.221	0.699	0.408	1.468	-0.262	0.745
157A	1.040	0.604	1.029	0.032	0.701	0.074	0.409	1.040	0.032	0.556
158C	0.844	1.417	0.832	0.156	0.547	0.054	-0.642	1.417	-0.642	0.458
159S	1.559	1.381	1.141	0.166	0.866	0.069	-0.673	1.559	-0.673	0.644
160G	1.445	0.201	1.244	-0.240	0.966	0.651	-0.837	1.445	-0.837	0.490
161A	1.445	-0.522	1.244	-0.693	0.966	0.651	-0.837	1.445	-0.837	0.322
162P	0.850	-0.432	1.318	-1.316	1.039	0.635	-1.138	1.318	-1.316	0.137
163R	0.206	-0.965	1.047	-1.864	0.875	0.617	-0.709	1.047	-1.864	-0.113
164A	-0.022	-2.185	1.216	-1.887	1.093	1.237	-0.442	1.237	-2.185	-0.141
165I	-0.736	-1.576	1.150	-1.471	1.048	1.241	0.820	1.241	-1.576	0.068
166V	-0.989	-0.396	1.160	-0.669	1.011	1.241	0.932	1.241	-0.989	0.327
167H	-0.812	0.191	1.029	0.513	0.847	0.657	0.820	1.029	-0.812	0.463
168F	-0.534	0.956	1.178	1.382	1.002	0.677	1.990	1.990	-0.534	0.950
169Y	0.300	0.806	1.515	1.981	1.175	0.695	1.709	1.981	0.300	1.169
170N	0.945	1.008	1.786	2.384	1.339	0.714	1.280	2.384	0.714	1.351
171S	0.307	0.890	1.487	2.037	1.148	0.096	1.334	2.037	0.096	1.043
172T	0.307	0.848	1.468	1.296	1.203	0.097	1.518	1.518	0.097	0.962

173S	0.806	1.171	1.543	0.259	1.339	0.120	1.349	1.543	0.120	0.941
174I	0.629	0.219	1.674	-0.906	1.504	0.704	1.461	1.674	-0.906	0.755
175L	0.484	0.447	1.954	-1.632	1.823	1.309	1.301	1.954	-1.632	0.812
176Q	-0.079	0.477	1.636	-1.980	1.658	1.290	1.849	1.849	-1.980	0.693
177R	-0.724	0.800	1.365	-2.266	1.494	1.272	2.277	2.277	-2.266	0.603
178R	-0.800	-0.013	1.440	-2.214	1.467	1.274	2.207	2.207	-2.214	0.480
179V	0.048	-0.218	1.954	-2.134	1.932	1.894	1.771	1.954	-2.134	0.750
180V	-0.199	0.692	1.627	-1.983	1.558	1.851	0.598	1.851	-1.983	0.592
181F	-0.022	0.788	1.496	-1.404	1.394	1.267	0.486	1.496	-1.404	0.572
182R	-0.022	1.537	1.496	-0.927	1.394	1.267	0.486	1.537	-0.927	0.747
183A	0.345	0.628	1.617	-0.385	1.403	1.266	-1.113	1.617	-1.113	0.537
184N	1.072	1.119	2.066	-0.260	1.777	1.864	-1.728	2.066	-1.728	0.844
185R	1.420	0.509	2.010	-0.660	1.813	1.861	-1.391	2.010	-1.391	0.795
186A	1.533	-0.629	1.907	-1.260	1.713	1.279	-1.227	1.907	-1.260	0.474
187E	1.533	-0.629	1.907	-1.635	1.713	1.279	-1.227	1.907	-1.635	0.420
188V	0.585	-0.713	1.468	-1.958	1.385	1.240	-0.792	1.468	-1.958	0.174
189Q	0.452	-0.078	1.038	-1.929	0.911	0.615	-1.801	1.038	-1.929	-0.113
190A	0.648	0.059	1.234	-1.985	1.066	0.635	-0.750	1.234	-1.985	0.130
191I	0.787	0.059	1.178	-1.738	1.020	0.524	-0.733	1.178	-1.738	0.157
192A	1.382	1.197	1.290	-1.207	0.984	0.523	-1.321	1.382	-1.321	0.407
193T	1.135	2.028	0.963	-0.572	0.610	0.481	-2.495	2.028	-2.495	0.307
194D	1.268	1.573	1.393	-0.354	1.084	1.105	-1.486	1.573	-1.486	0.655
195G	2.134	0.938	1.982	-0.724	1.741	1.698	-1.742	2.134	-1.742	0.861
196A	2.090	0.886	1.767	-1.294	1.649	1.716	-0.110	2.090	-1.294	0.958
197R	1.527	1.377	1.449	-1.680	1.485	1.697	0.438	1.697	-1.680	0.899
198K	1.388	0.564	1.505	-1.710	1.531	1.808	0.421	1.808	-1.710	0.787
199C	1.407	-0.268	1.842	-1.442	1.950	1.850	0.584	1.950	-1.442	0.846
200V	1.407	0.527	1.842	-1.350	1.950	1.850	0.584	1.950	-1.350	0.973
201E	1.274	0.217	1.412	-1.418	1.476	1.226	-0.425	1.476	-1.418	0.537
202Q	1.274	0.001	1.412	-1.578	1.476	1.226	-0.425	1.476	-1.578	0.484
203A	1.065	0.137	1.879	-1.795	1.804	1.227	-0.716	1.879	-1.795	0.515
204A	1.432	0.628	2.244	-1.751	2.087	1.245	-1.084	2.244	-1.751	0.686
205K	1.299	1.119	1.907	-1.544	1.677	0.645	-1.058	1.907	-1.544	0.578
206Y	1.249	-0.216	1.776	-1.144	1.458	0.623	-1.180	1.776	-1.180	0.367
207P	1.495	1.004	2.103	-0.702	1.832	0.665	-0.007	2.103	-0.702	0.913
208G	0.730	0.471	2.122	-0.526	1.850	0.690	1.025	2.122	-0.526	0.909
209T	0.636	0.419	2.103	-0.683	1.686	0.720	0.960	2.103	-0.683	0.834
210Q	0.174	-0.478	1.786	-0.986	1.403	0.705	0.879	1.786	-0.986	0.498
211W	0.534	-0.114	1.870	-1.433	1.494	1.286	0.632	1.870	-1.433	0.610
212R	0.054	0.748	2.132	-1.577	1.777	1.305	0.964	2.132	-1.577	0.772
213F	0.136	0.509	2.085	-1.395	1.777	1.305	1.083	2.085	-1.395	0.786
214E	-0.111	1.539	2.001	-0.897	1.677	1.282	1.140	2.001	-0.897	0.947
215Y	1.015	0.558	2.309	-0.347	2.023	1.856	1.091	2.309	-0.347	1.215
216S	1.160	1.455	2.029	0.229	1.704	1.252	1.252	2.029	0.229	1.297
217P	1.622	1.227	2.346	0.330	1.987	1.267	1.333	2.346	0.330	1.444
218E	1.457	1.359	2.216	0.361	1.777	0.687	1.400	2.216	0.361	1.322
219S	1.938	1.359	1.954	0.153	1.494	0.668	1.068	1.954	0.153	1.234
220Y	1.856	0.299	2.001	-0.042	1.494	0.668	0.949	2.001	-0.042	1.032
221T	2.216	1.281	2.085	-0.391	1.586	1.248	0.703	2.216	-0.391	1.247
222G	1.141	0.383	1.674	-0.689	1.230	0.654	1.164	1.674	-0.689	0.794
223T	1.224	-0.244	1.851	-1.251	1.440	1.234	0.978	1.851	-1.251	0.747
224E	1.224	0.097	1.851	-1.608	1.440	1.234	0.978	1.851	-1.608	0.745
225L	1.028	0.013	1.655	-1.945	1.285	1.214	-0.073	1.655	-1.945	0.454
226E	1.028	0.121	2.113	-2.036	1.968	1.808	-0.008	2.113	-2.036	0.713
227Y	1.078	-0.418	2.244	-1.988	2.187	1.831	0.114	2.244	-1.988	0.721
228A	0.351	0.527	1.795	-1.876	1.813	1.233	0.730	1.813	-1.876	0.653
229K	1.021	0.527	1.664	-1.574	1.713	1.245	0.917	1.713	-1.574	0.788
230Q	1.160	-0.400	1.608	-1.008	1.668	1.134	0.934	1.668	-1.008	0.728
231V	1.413	-0.264	1.356	-0.401	1.431	1.115	-0.408	1.431	-0.408	0.606

232C	1.046	0.407	1.234	0.063	1.422	1.117	1.191	1.422	0.063	0.926
233D	1.046	0.275	0.776	0.053	0.738	0.522	1.126	1.126	0.053	0.648
234A	1.160	-0.589	0.776	-0.545	0.729	1.079	0.936	1.160	-0.589	0.507
235V	1.160	-0.589	0.776	-1.244	0.729	1.079	0.936	1.160	-1.244	0.407
236G	0.566	-0.134	0.851	-1.909	0.802	1.063	0.636	1.063	-1.909	0.268
237E	0.067	-0.270	0.580	-2.349	0.483	0.574	-0.365	0.580	-2.349	-0.183
238V	0.067	-0.486	0.823	-2.353	0.756	0.593	0.865	0.865	-2.353	0.038
239I	0.629	0.185	1.141	-2.068	0.920	0.612	0.317	1.141	-2.068	0.248
240A	0.402	1.323	1.393	-1.397	1.239	0.631	0.536	1.393	-1.397	0.590
241P	0.402	1.682	1.393	-0.714	1.239	0.631	0.536	1.682	-0.714	0.738
242T	0.901	0.998	1.945	-0.405	1.722	1.254	-0.053	1.945	-0.405	0.909
243P	1.540	0.183	2.328	-0.470	2.014	1.271	-0.155	2.328	-0.470	0.959
244E	0.901	-0.350	2.188	-0.958	1.996	1.273	1.177	2.188	-0.958	0.889
245R	0.263	-0.316	1.804	-1.513	1.704	1.256	1.279	1.804	-1.513	0.640
246P	-0.648	-1.334	1.543	-1.834	1.504	1.240	1.489	1.543	-1.834	0.280
247I	-0.338	-1.334	1.599	-1.615	1.540	1.261	1.156	1.599	-1.615	0.324
248I	-1.413	-1.009	1.188	-1.100	1.185	0.667	1.617	1.617	-1.413	0.162
249F	-1.546	-0.194	1.001	-0.097	0.984	0.062	1.838	1.838	-1.546	0.293
250N	-1.546	-0.116	0.758	0.360	0.711	0.043	0.608	0.758	-1.546	0.117
251L	-0.711	-0.150	1.094	0.485	0.884	0.061	0.327	1.094	-0.711	0.284
252P	-0.439	-0.060	1.113	-0.046	0.893	0.061	0.594	1.113	-0.439	0.302
253A	0.636	0.073	1.505	-0.606	1.303	0.656	0.317	1.505	-0.606	0.555
254T	-0.073	0.564	1.197	-1.360	1.039	0.632	0.375	1.197	-1.360	0.339
255V	0.838	0.431	1.477	-1.622	1.185	0.647	-0.020	1.477	-1.622	0.419
256E	1.034	1.137	1.431	-1.863	1.066	0.648	-0.199	1.431	-1.863	0.465
257M	1.034	0.465	1.674	-1.508	1.339	0.667	1.031	1.674	-1.508	0.672
258T	1.148	0.173	1.776	-0.584	1.494	0.688	0.877	1.776	-0.584	0.796
259T	1.148	-0.318	1.776	0.420	1.494	0.688	0.877	1.776	-0.318	0.869
260P	0.534	-0.270	1.702	1.164	1.367	0.107	1.236	1.702	-0.270	0.834
261N	0.933	0.227	1.711	1.122	1.321	0.090	0.281	1.711	0.090	0.812
262V	1.236	-0.707	1.786	0.665	1.485	0.559	0.231	1.786	-0.707	0.751
263Y	1.318	-0.036	1.739	0.234	1.485	0.559	0.350	1.739	-0.036	0.807
264A	0.680	-0.132	1.356	0.172	1.194	0.542	0.452	1.356	-0.132	0.609
265D	0.730	-0.246	1.384	0.087	1.248	1.101	0.539	1.384	-0.246	0.692
266S	0.332	0.071	1.524	-0.192	1.276	1.125	-0.028	1.524	-0.192	0.587
267I	0.187	0.029	1.262	-1.088	1.084	1.123	-0.415	1.262	-1.088	0.312
268E	0.465	0.962	1.412	-1.702	1.239	1.143	0.755	1.412	-1.702	0.611
269W	0.098	0.183	1.571	-2.043	1.394	1.278	0.763	1.571	-2.043	0.464
270M	0.130	0.686	1.720	-1.370	1.549	1.299	0.490	1.720	-1.370	0.643
271S	0.054	1.409	1.776	-0.548	1.576	1.303	0.603	1.776	-0.548	0.882
272R	-0.307	1.367	1.449	0.165	1.212	0.703	-0.380	1.449	-0.380	0.601
273N	0.768	1.129	1.730	0.601	1.504	0.718	-0.516	1.730	-0.516	0.848
274L	1.299	1.375	2.169	0.660	1.932	1.326	-0.461	2.169	-0.461	1.186
275A	1.382	1.483	2.346	0.395	2.142	1.905	-0.647	2.346	-0.647	1.287
276N	1.527	1.159	2.066	0.376	1.823	1.301	-0.487	2.066	-0.487	1.109
277R	0.850	0.345	1.646	-0.082	1.504	1.262	0.215	1.646	-0.082	0.820
278E	0.926	0.387	1.589	-0.463	1.476	1.258	0.102	1.589	-0.463	0.754
279S	0.212	-0.392	1.505	-0.932	1.485	1.264	1.547	1.547	-0.932	0.670
280V	0.180	-1.158	1.356	-1.399	1.330	1.243	1.820	1.820	-1.399	0.482
281I	-0.667	-0.703	0.842	-1.564	0.866	0.624	2.256	2.256	-1.564	0.236
282L	-1.027	-0.288	0.674	-1.013	0.674	0.644	2.549	2.549	-1.027	0.316
283S	-1.305	0.525	0.767	-0.317	0.793	0.643	2.609	2.609	-1.305	0.531
284L	-0.939	0.209	1.047	0.960	0.975	1.261	2.288	2.288	-0.939	0.829
285H	0.010	1.227	1.487	2.179	1.303	1.300	1.853	2.179	0.010	1.337
286P	1.224	1.764	1.842	3.322	1.613	1.784	1.409	3.322	1.224	1.851
287H	1.078	1.896	2.122	3.639	1.932	2.388	1.249	3.639	1.078	2.043
288N	2.020	1.806	2.197	3.377	1.877	2.383	0.814	3.377	0.814	2.068
289D	2.216	1.101	2.234	2.079	1.859	1.783	0.587	2.234	0.587	1.694
290R	2.216	0.562	1.991	0.647	1.586	1.764	-0.643	2.216	-0.643	1.160

291G	1.849	-0.252	1.711	-0.568	1.403	1.146	-0.321	1.849	-0.568	0.710
292T	1.540	-0.879	1.412	-1.278	1.093	1.105	-1.218	1.540	-1.278	0.254
293A	1.040	-0.795	1.141	-1.665	0.774	0.616	-2.220	1.141	-2.220	-0.158
294V	0.907	-0.999	0.711	-1.873	0.300	-0.009	-3.229	0.907	-3.229	-0.599
295A	1.040	-0.276	1.047	-2.076	0.711	0.591	-3.255	1.047	-3.255	-0.317
296A	0.130	-0.450	0.767	-2.246	0.565	0.576	-2.861	0.767	-2.861	-0.503
297A	0.357	-0.450	0.758	-2.266	0.519	0.576	-1.851	0.758	-2.266	-0.337
298E	0.010	-0.450	0.814	-2.154	0.483	0.579	-2.188	0.814	-2.188	-0.415
299L	0.010	-0.398	0.814	-1.965	0.483	0.579	-2.188	0.814	-2.188	-0.381
300G	0.010	-0.194	0.814	-1.713	0.483	0.579	-2.188	0.814	-2.188	-0.316
301F	0.237	-0.282	0.804	-1.568	0.437	0.579	-1.178	0.804	-1.568	-0.139
302A	-0.123	0.706	0.477	-1.607	0.073	-0.021	-2.162	0.706	-2.162	-0.380
303A	1.091	0.381	0.832	-1.459	0.382	0.463	-2.606	1.091	-2.606	-0.131
304G	0.996	0.956	1.272	-1.297	0.902	1.088	-2.607	1.272	-2.607	0.187
305A	1.072	0.956	1.197	-1.093	0.929	1.085	-2.536	1.197	-2.536	0.230
306D	1.432	0.992	1.524	-1.153	1.294	1.685	-1.553	1.685	-1.553	0.603
307R	1.660	0.249	1.515	-1.531	1.248	1.685	-0.542	1.685	-1.531	0.612
308I	1.388	-0.739	1.309	-1.861	1.203	1.703	0.080	1.703	-1.861	0.440
309E	0.673	0.213	1.225	-1.844	1.212	1.708	1.525	1.708	-1.844	0.673
310G	-0.540	0.247	0.889	-1.510	0.847	1.223	1.785	1.785	-1.510	0.420
311C	-0.446	0.247	0.449	-1.096	0.328	0.599	1.786	1.786	-1.096	0.267
312L	0.503	0.786	0.889	-0.471	0.656	0.637	1.351	1.351	-0.471	0.622
313F	0.370	1.804	0.552	-0.082	0.246	0.038	1.378	1.804	-0.082	0.615
314G	0.503	2.469	0.889	0.408	0.656	0.637	1.351	2.469	0.408	0.988
315N	0.680	2.469	1.533	0.295	1.221	1.244	0.728	2.469	0.295	1.167
316G	1.590	2.469	1.814	-0.082	1.367	1.259	0.334	2.469	-0.082	1.250
317E	2.532	1.746	1.870	-0.901	1.367	1.255	0.083	2.532	-0.901	1.136
318R	2.614	1.207	2.178	-0.844	1.722	1.295	-0.030	2.614	-0.844	1.163
319T	1.938	0.189	1.758	-0.611	1.403	1.256	0.672	1.938	-0.611	0.943
320G	1.666	-0.398	1.552	0.336	1.358	1.274	1.294	1.666	-0.398	1.012
321N	0.591	-0.534	1.141	0.665	1.002	0.680	1.755	1.755	-0.534	0.757
322V	0.092	-1.348	0.589	0.503	0.519	0.057	2.345	2.345	-1.348	0.394
323C	0.092	-0.625	0.589	-0.211	0.519	0.057	2.345	2.345	-0.625	0.395
324L	-0.850	-0.865	0.515	-0.811	0.574	0.062	2.779	2.779	-0.865	0.201
325V	-0.932	-0.052	0.206	-1.376	0.218	0.022	2.893	2.893	-1.376	0.140
326T	-1.280	-0.160	0.244	-1.522	0.237	0.025	2.739	2.739	-1.522	0.040
327L	-0.926	-0.825	0.758	-1.292	0.638	0.048	2.003	2.003	-1.292	0.058
328G	-0.926	0.235	0.758	-0.942	0.638	0.048	2.003	2.003	-0.942	0.259
329L	-1.274	0.421	0.814	-0.246	0.601	0.051	1.666	1.666	-1.274	0.290
330N	-1.192	1.253	0.767	0.271	0.601	0.051	1.785	1.785	-1.192	0.505
331L	-0.344	0.548	1.281	0.473	1.066	0.670	1.349	1.349	-0.344	0.720
332F	-0.344	1.291	1.281	0.211	1.066	0.670	1.349	1.349	-0.344	0.789
333S	0.003	1.824	1.244	-0.236	1.048	0.666	1.503	1.824	-0.236	0.864
334R	0.193	1.459	1.216	-0.707	1.057	1.115	1.607	1.607	-0.707	0.848
335G	0.907	0.321	1.543	-0.670	1.321	1.128	1.392	1.543	-0.670	0.849
336V	1.868	0.233	1.935	-0.248	1.741	1.166	1.304	1.935	-0.248	1.143
337D	0.952	0.155	1.646	0.004	1.567	1.148	1.466	1.646	0.004	0.991
338P	1.318	0.471	1.487	0.317	1.412	1.012	1.458	1.487	0.317	1.068
339Q	0.376	0.722	1.431	0.106	1.412	1.017	1.709	1.709	0.106	0.968
340I	1.021	-0.094	1.702	0.235	1.576	1.035	1.280	1.702	-0.094	0.965
341D	0.832	0.770	1.730	0.757	1.567	0.587	1.176	1.730	0.587	1.060
342F	0.193	0.806	1.346	1.378	1.276	0.570	1.277	1.378	0.193	0.978
343S	0.446	0.656	1.290	1.923	1.221	1.016	1.105	1.923	0.446	1.094
344N	1.445	0.614	1.758	1.783	1.604	1.614	0.757	1.783	0.614	1.368
345I	0.307	0.818	1.346	0.950	1.267	1.127	1.088	1.346	0.307	0.986
346D	1.154	1.633	1.842	-0.184	1.786	1.747	0.836	1.842	-0.184	1.259
347E	1.009	0.998	2.122	-1.301	2.105	2.352	0.675	2.352	-1.301	1.137
348I	0.895	0.998	2.019	-2.184	1.950	2.331	0.829	2.331	-2.184	0.977
349R	1.167	0.916	2.038	-2.320	1.959	2.331	1.096	2.331	-2.320	1.027

350R	1.028	0.139	2.094	-2.268	2.005	2.442	1.079	2.442	-2.268	0.931
351T	0.414	-0.066	2.019	-1.930	1.877	1.861	1.437	2.019	-1.930	0.802
352V	1.009	-0.066	1.945	-1.546	1.804	1.877	1.738	1.945	-1.546	0.966
353E	1.186	-0.174	1.814	-0.854	1.640	1.293	1.625	1.814	-0.854	0.933
354Y	1.299	-0.390	1.711	0.085	1.540	0.711	1.790	1.790	-0.390	0.964
355C	0.389	-0.080	1.431	0.927	1.394	0.697	2.184	2.184	-0.080	0.992
356N	0.756	-0.026	1.795	1.337	1.677	0.714	1.815	1.815	-0.026	1.152
357Q	0.029	-0.060	1.346	0.906	1.303	0.116	2.430	2.430	-0.060	0.867
358L	0.281	0.263	1.253	0.461	1.239	0.716	2.365	2.365	0.263	0.940
359P	0.686	0.558	1.795	0.115	1.695	1.298	1.717	1.795	0.115	1.123
360V	0.509	0.558	1.926	0.046	1.859	1.882	1.829	1.926	0.046	1.230
361H	0.263	0.247	1.758	0.271	1.658	2.460	1.933	2.460	0.247	1.227
362E	0.977	0.784	2.085	0.439	1.923	2.473	1.718	2.473	0.439	1.486
363R	0.724	0.836	2.094	0.526	1.886	2.474	1.830	2.474	0.526	1.481
364H	1.318	0.562	2.206	0.722	1.850	2.472	1.242	2.472	0.562	1.482
365P	1.546	0.267	2.038	0.419	1.631	1.852	0.975	2.038	0.267	1.247
366Y	1.685	-0.188	1.982	0.141	1.586	1.742	0.992	1.982	-0.188	1.134
367G	0.838	-0.188	1.468	-0.233	1.121	1.122	1.428	1.468	-0.233	0.794
368G	0.471	-0.324	1.188	-0.514	0.938	0.504	1.749	1.749	-0.514	0.573
369D	0.218	-0.951	1.197	-0.637	0.902	0.504	1.861	1.861	-0.951	0.442
370L	0.667	-1.664	1.141	-0.783	0.820	0.505	1.570	1.570	-1.664	0.322
371V	0.440	-0.605	1.150	-1.063	0.866	0.505	0.560	1.150	-1.063	0.265
372Y	-0.503	0.119	1.094	-1.043	0.866	0.509	0.810	1.094	-1.043	0.265
373T	-0.724	1.381	0.973	-0.857	0.701	0.040	0.979	1.381	-0.857	0.356
374A	0.218	0.980	1.047	-0.463	0.647	0.035	0.545	1.047	-0.463	0.430
375F	0.863	1.471	1.318	0.053	0.811	0.053	0.116	1.471	0.053	0.669
376S	1.116	2.184	1.225	0.701	0.747	0.654	0.051	2.184	0.051	0.954
377G	1.167	1.329	1.356	1.271	0.966	0.676	0.173	1.356	0.173	0.991
378S	1.666	0.377	1.627	1.947	1.285	1.165	1.175	1.947	0.377	1.320
379H	2.381	0.131	1.692	2.093	1.330	1.161	-0.087	2.381	-0.087	1.243
380Q	1.464	0.872	1.403	1.579	1.157	1.143	0.075	1.579	0.075	1.099
381D	1.546	1.008	1.711	1.040	1.513	1.184	-0.038	1.711	-0.038	1.138
382A	1.495	0.265	2.010	0.301	1.996	1.758	-0.133	2.010	-0.133	1.099
383I	1.723	0.804	1.842	-0.046	1.777	1.138	-0.400	1.842	-0.400	0.977
384N	0.762	1.129	1.431	-0.227	1.412	1.101	-0.128	1.431	-0.227	0.783
385K	0.762	0.405	1.431	-0.365	1.412	1.101	-0.128	1.431	-0.365	0.660
386G	0.762	0.405	1.431	-0.650	1.412	1.101	-0.128	1.431	-0.650	0.619
387L	1.002	-0.426	1.561	-0.706	1.476	1.117	-0.505	1.561	-0.706	0.503
388D	0.920	0.317	1.711	-1.123	1.804	1.671	-0.327	1.804	-1.123	0.710
389A	-0.022	-0.222	1.178	-1.469	1.175	1.081	0.043	1.178	-1.469	0.252
390M	0.250	0.317	1.459	-1.784	1.540	1.570	0.034	1.570	-1.784	0.484
391K	0.964	0.431	1.543	-1.769	1.531	1.565	-1.412	1.565	-1.769	0.408
392L	0.964	-0.400	1.543	-1.144	1.531	1.565	-1.412	1.565	-1.412	0.378
393D	0.964	0.343	1.543	-0.428	1.531	1.565	-1.412	1.565	-1.412	0.587
394A	1.363	-0.160	1.552	0.040	1.485	1.548	-2.366	1.552	-2.366	0.495
395D	1.634	0.379	1.375	0.104	1.166	1.442	-2.440	1.634	-2.440	0.523
396A	2.305	-0.256	1.244	0.149	1.066	1.454	-2.253	2.305	-2.253	0.530
397A	2.305	0.283	1.244	0.392	1.066	1.454	-2.253	2.305	-2.253	0.642
398D	1.938	0.822	1.122	0.894	1.057	1.456	-0.654	1.938	-0.654	0.948
399C	1.938	0.169	1.122	1.315	1.057	1.456	-0.654	1.938	-0.654	0.915
400D	2.437	-0.072	1.393	1.552	1.376	1.945	0.347	2.437	-0.072	1.283
401V	2.039	-1.113	1.384	1.446	1.422	1.962	1.302	2.039	-1.113	1.206
402D	0.825	-0.526	1.029	0.957	1.112	1.479	1.746	1.746	-0.526	0.946
403D	0.104	-1.162	1.262	0.209	1.221	1.486	1.146	1.486	-1.162	0.610
404M	-0.148	-1.342	1.318	-0.764	1.276	1.039	1.318	1.318	-1.342	0.385
405L	-0.148	-1.634	1.318	-1.478	1.276	1.039	1.318	1.318	-1.634	0.242
406W	-0.648	-1.634	1.290	-1.654	1.230	0.570	1.547	1.547	-1.654	0.100
407Q	-1.400	-0.773	1.272	-1.463	1.148	0.100	1.888	1.888	-1.463	0.110
408V	-1.716	-1.588	1.197	-1.048	1.112	0.088	2.378	2.378	-1.716	0.060

409P	-1.002	-0.953	1.524	-0.819	1.376	0.102	2.163	2.163	-1.002	0.342
410Y	-0.876	-0.953	1.365	-0.915	1.339	0.078	2.462	2.462	-0.953	0.357
411L	-0.623	0.267	1.309	-0.881	1.285	0.525	2.290	2.290	-0.881	0.596
412P	-0.256	1.010	1.674	-0.672	1.567	0.542	1.921	1.921	-0.672	0.827
413I	-0.123	0.556	1.860	-0.389	1.768	1.148	1.701	1.860	-0.389	0.931
414D	0.629	1.507	1.879	0.067	1.850	1.618	1.360	1.879	0.067	1.273
415P	0.977	1.782	1.842	0.240	1.832	1.614	1.513	1.842	0.240	1.400
416R	1.205	1.914	1.589	0.063	1.513	1.595	1.294	1.914	0.063	1.310
417D	1.976	0.694	2.160	-0.300	2.005	2.218	0.971	2.218	-0.300	1.389
418V	1.672	0.730	2.085	-0.803	1.841	1.749	1.021	2.085	-0.803	1.185
419G	1.420	0.826	2.094	-1.242	1.804	1.749	1.133	2.094	-1.242	1.112
420R	1.647	0.103	1.991	-1.329	1.695	1.724	1.108	1.991	-1.329	0.991
421T	1.148	-1.035	1.720	-1.488	1.376	1.235	0.106	1.720	-1.488	0.437
422Y	1.148	-0.713	1.720	-1.522	1.376	1.235	0.106	1.720	-1.522	0.479
423E	0.281	-0.402	1.589	-1.855	1.403	1.237	0.428	1.589	-1.855	0.383
424A	0.281	-0.368	1.589	-2.221	1.403	1.237	0.428	1.589	-2.221	0.336
425V	-0.281	0.487	1.272	-2.609	1.239	1.218	0.976	1.272	-2.609	0.329
426I	0.281	1.074	1.318	-2.309	1.312	1.240	0.531	1.318	-2.309	0.493
427R	0.199	2.255	1.141	-1.435	1.103	0.660	0.717	2.255	-1.435	0.663
428V	0.446	2.068	1.468	-0.076	1.476	0.703	1.890	2.068	-0.076	1.139
429N	1.091	2.996	1.739	1.216	1.640	0.721	1.461	2.996	0.721	1.552
430S	1.957	3.014	1.870	1.771	1.613	0.719	1.140	3.014	0.719	1.726
431Q	2.052	2.786	1.889	1.403	1.777	0.689	1.206	2.786	0.689	1.686
432S	2.646	2.199	2.001	0.550	1.741	0.688	0.617	2.646	0.550	1.492
433G	2.564	1.343	1.692	-0.544	1.385	0.647	0.731	2.564	-0.544	1.117
434K	1.919	0.309	1.421	-1.325	1.221	0.629	1.160	1.919	-1.325	0.762
435G	1.672	-0.847	1.094	-1.722	0.847	0.586	-0.014	1.672	-1.722	0.231
436G	1.141	-1.588	1.197	-1.916	0.929	0.585	0.158	1.197	-1.916	0.072
437V	0.275	-1.384	1.066	-1.993	0.957	0.587	0.480	1.066	-1.993	-0.002
438A	-0.351	-0.797	0.608	-2.138	0.364	0.010	0.360	0.608	-2.138	-0.278
439Y	-0.351	-0.258	1.066	-2.440	1.048	0.604	0.424	1.066	-2.440	0.013
440I	-0.382	0.239	1.272	-2.600	1.248	0.624	0.465	1.272	-2.600	0.124
441M	0.484	1.191	1.664	-2.282	1.576	1.112	-0.133	1.664	-2.282	0.516
442K	0.484	1.101	1.823	-1.188	1.750	1.732	1.145	1.823	-1.188	0.978
443T	0.964	1.125	1.561	0.108	1.467	1.712	0.813	1.712	0.108	1.107
444D	0.888	0.429	1.617	1.132	1.494	1.716	0.926	1.716	0.429	1.172
445H	1.565	0.249	1.776	1.394	1.604	1.719	1.141	1.776	0.249	1.350
446G	0.623	0.972	1.244	0.800	0.975	1.129	1.511	1.511	0.623	1.036
447L	0.427	1.159	1.290	0.174	1.093	1.128	1.690	1.690	0.174	0.995
448S	0.060	1.159	1.449	-0.375	1.248	1.264	1.698	1.698	-0.375	0.929
449L	0.193	0.794	1.720	-0.772	1.549	1.269	1.430	1.720	-0.772	0.883
450P	-0.749	0.674	1.646	-1.221	1.604	1.274	1.865	1.865	-1.221	0.727
451R	0.212	0.890	2.057	-1.593	1.968	1.311	1.593	2.057	-1.593	0.920
452R	-0.705	-0.098	1.767	-2.110	1.795	1.293	1.755	1.795	-2.110	0.528
453L	0.370	-0.056	2.178	-2.161	2.151	1.887	1.294	2.178	-2.161	0.809
454Q	-0.344	0.640	1.870	-2.176	1.832	1.873	1.325	1.873	-2.176	0.717
455I	-0.199	0.053	1.589	-1.773	1.513	1.268	1.486	1.589	-1.773	0.562
456E	-0.085	0.053	1.487	-1.208	1.412	0.686	1.650	1.650	-1.208	0.571
457F	0.263	-0.032	1.449	-0.535	1.394	0.682	1.803	1.803	-0.535	0.718
458S	-0.623	0.974	0.982	-0.343	1.002	0.641	1.962	1.962	-0.623	0.657
459Q	0.263	-0.206	1.449	-0.522	1.394	0.682	1.803	1.803	-0.522	0.695
460V	0.130	-0.697	1.571	-1.190	1.668	0.677	1.895	1.895	-1.190	0.579
461I	0.206	-0.026	1.496	-1.811	1.695	0.675	1.965	1.965	-1.811	0.600
462Q	-0.073	0.926	1.346	-2.244	1.540	0.654	0.795	1.540	-2.244	0.421
463K	0.041	0.926	1.346	-2.454	1.531	1.212	0.606	1.531	-2.454	0.458
464I	0.636	0.095	1.459	-2.544	1.494	1.210	0.017	1.494	-2.544	0.338
465A	1.470	1.046	1.795	-2.337	1.668	1.228	-0.264	1.795	-2.337	0.658
466E	1.224	1.621	1.468	-2.067	1.294	1.186	-1.437	1.621	-2.067	0.470
467G	1.224	1.674	1.010	-1.655	0.610	0.591	-1.502	1.674	-1.655	0.279

468T	2.222	1.674	1.477	-1.457	0.993	1.189	-1.850	2.222	-1.850	0.607
469A	2.450	1.758	1.468	-1.506	0.948	1.189	-0.839	2.450	-1.506	0.781
470G	2.317	1.662	1.132	-1.677	0.537	0.589	-0.813	2.317	-1.677	0.535
471E	2.450	1.890	1.468	-1.823	0.948	1.189	-0.839	2.450	-1.823	0.755
472G	1.887	1.674	1.150	-1.950	0.784	1.171	-0.291	1.887	-1.950	0.632
473G	2.166	1.878	1.300	-1.726	0.938	1.191	0.879	2.166	-1.726	0.946
474E	1.938	1.826	1.552	-1.326	1.257	1.210	1.098	1.938	-1.326	1.079
475V	1.805	1.137	1.674	-0.784	1.531	1.205	1.190	1.805	-0.784	1.108
476S	1.938	0.730	2.010	-0.435	1.941	1.804	1.163	2.010	-0.435	1.307
477P	1.312	0.413	2.010	-0.648	2.032	1.821	1.108	2.032	-0.648	1.150
478K	0.187	0.055	1.702	-1.326	1.686	1.247	1.156	1.702	-1.326	0.672
479E	1.053	-0.951	2.094	-1.772	2.014	1.734	0.558	2.094	-1.772	0.676
480M	0.775	-1.526	1.945	-1.911	1.859	1.714	-0.612	1.945	-1.911	0.321
481W	0.060	-0.837	1.636	-1.382	1.540	1.700	-0.580	1.700	-1.382	0.305
482D	-0.167	0.241	1.188	-0.856	0.902	1.105	-1.655	1.188	-1.655	0.108
483A	-0.167	-0.705	1.188	-0.709	0.902	1.105	-1.655	1.188	-1.655	-0.006
484F	0.591	-0.909	1.524	-1.045	1.221	1.687	-1.627	1.687	-1.627	0.206
485A	1.103	-0.735	1.758	-1.440	1.440	1.681	-1.317	1.758	-1.440	0.356
486E	-0.111	-0.376	1.403	-1.921	1.130	1.198	-0.873	1.403	-1.921	0.064
487E	-0.111	-1.047	1.403	-1.997	1.130	1.198	-0.873	1.403	-1.997	-0.042
488Y	0.604	-0.809	1.711	-1.911	1.449	1.213	-0.904	1.711	-1.911	0.193
489L	0.237	-0.044	1.589	-1.712	1.440	1.214	0.695	1.589	-1.712	0.489
490A	0.010	-0.044	1.692	-1.527	1.549	1.239	0.720	1.692	-1.527	0.520
491P	-0.351	0.532	1.608	-1.319	1.458	0.659	0.966	1.608	-1.319	0.508
492V	-0.812	0.986	1.272	-1.341	1.230	0.645	1.069	1.272	-1.341	0.436
493R	0.263	0.758	1.683	-1.385	1.586	1.239	0.608	1.683	-1.385	0.679
494P	0.395	0.758	2.113	-1.563	2.060	1.864	1.617	2.113	-1.563	1.035
495L	-0.243	0.890	1.730	-1.957	1.768	1.846	1.719	1.846	-1.957	0.822
496E	0.256	1.185	2.281	-2.402	2.251	2.470	1.130	2.470	-2.402	1.024
497R	0.370	0.513	2.178	-2.632	2.151	1.887	1.294	2.178	-2.632	0.823
498I	0.370	0.239	2.094	-2.302	2.050	2.488	1.341	2.488	-2.302	0.897
499R	0.718	0.564	2.057	-1.483	2.032	2.484	1.495	2.484	-1.483	1.124
500Q	0.857	-0.250	2.001	-0.211	1.987	2.374	1.512	2.374	-0.250	1.181
501H	0.724	-0.202	1.571	0.551	1.513	1.749	0.503	1.749	-0.202	0.916
502V	1.363	0.247	1.711	0.747	1.531	1.747	-0.829	1.747	-0.829	0.931
503D	1.729	0.882	1.552	0.477	1.376	1.612	-0.837	1.729	-0.837	0.970
504A	1.982	0.970	1.496	0.356	1.321	2.058	-1.009	2.058	-1.009	1.025
505A	2.482	1.597	1.608	0.612	1.467	1.927	-1.286	2.482	-1.286	1.201
506D	3.076	2.088	1.720	1.315	1.431	1.926	-1.874	3.076	-1.874	1.383
507D	2.804	2.040	1.440	1.566	1.066	1.437	-1.865	2.804	-1.865	1.213
508D	3.000	2.357	1.636	1.299	1.221	1.457	-0.814	3.000	-0.814	1.451
509G	3.196	1.493	1.832	0.626	1.376	1.477	0.237	3.196	0.237	1.462
510G	2.975	1.357	1.711	0.109	1.212	1.008	0.406	2.975	0.109	1.254
511T	1.837	0.730	1.300	-0.108	0.875	0.521	0.736	1.837	-0.108	0.841
512T	1.533	0.730	1.225	-0.050	0.711	0.052	0.786	1.533	-0.050	0.712
513S	1.306	0.143	1.234	-0.237	0.756	0.052	-0.224	1.306	-0.237	0.433
514I	1.274	0.119	1.440	-0.508	0.957	0.071	-0.184	1.440	-0.508	0.453
515T	0.711	0.119	1.122	-0.935	0.793	0.053	0.364	1.122	-0.935	0.318
516A	0.743	0.237	1.375	-1.145	1.276	0.628	0.388	1.375	-1.145	0.500
517T	-0.174	0.864	1.085	-1.570	1.103	0.610	0.550	1.103	-1.570	0.353
518V	0.775	0.277	1.524	-1.409	1.431	0.648	0.116	1.524	-1.409	0.480
519K	0.806	0.948	1.318	-1.320	1.230	0.628	0.075	1.318	-1.320	0.527
520I	0.440	0.608	1.197	-0.721	1.221	0.630	1.674	1.674	-0.721	0.721
521N	0.604	1.507	1.328	-0.430	1.431	1.210	1.607	1.607	-0.430	1.037
522G	1.167	0.574	1.646	-0.398	1.595	1.228	1.059	1.646	-0.398	0.981
523V	1.299	0.802	1.524	-0.911	1.321	1.233	0.968	1.524	-0.911	0.891
524E	1.299	1.525	1.524	-1.339	1.321	1.233	0.968	1.525	-1.339	0.933
525T	1.268	1.806	1.375	-1.620	1.166	1.212	1.240	1.806	-1.620	0.921
526E	1.268	1.942	1.375	-1.506	1.166	1.212	1.240	1.942	-1.506	0.957

527I	1.913	1.976	1.646	-1.015	1.330	1.231	0.812	1.976	-1.015	1.127
528S	1.780	2.928	1.309	-0.523	0.920	0.631	0.838	2.928	-0.523	1.126
529G	1.894	2.431	1.412	0.299	1.075	0.652	0.684	2.431	0.299	1.207
530S	1.761	1.599	1.075	0.785	0.665	0.052	0.711	1.761	0.052	0.950
531G	2.399	0.744	1.459	1.337	0.957	0.070	0.609	2.399	0.070	1.082
532N	1.407	0.117	1.225	1.111	0.811	0.055	0.884	1.407	0.055	0.801
533G	1.179	-0.667	1.234	0.703	0.856	0.055	-0.126	1.234	-0.667	0.462
534P	0.901	-1.390	1.085	-0.307	0.701	0.035	-1.296	1.085	-1.390	-0.039
535L	-0.041	-1.658	1.029	-0.954	0.701	0.039	-1.045	1.029	-1.658	-0.276
536A	-0.717	-1.454	0.608	-1.591	0.382	0.000	-0.343	0.608	-1.591	-0.445
537A	-0.945	-1.658	0.776	-1.188	0.601	0.620	-0.076	0.776	-1.658	-0.267
538F	-0.945	-1.658	0.533	-0.768	0.328	0.601	-1.306	0.601	-1.658	-0.459
539V	-0.945	-0.945	0.533	-0.177	0.328	0.601	-1.306	0.601	-1.306	-0.273
540H	-0.945	-0.945	0.533	-0.150	0.328	0.601	-1.306	0.601	-1.306	-0.269
541A	-0.446	-0.408	0.804	-0.278	0.647	1.090	-0.305	1.090	-0.446	0.158
542L	-0.098	-0.583	0.748	-0.716	0.683	1.087	0.032	1.087	-0.716	0.165
543A	0.496	0.161	0.860	-0.684	0.647	1.086	-0.556	1.086	-0.684	0.287
544D	-0.218	0.065	0.636	-0.724	0.428	0.470	-0.572	0.636	-0.724	0.012
545V	0.281	-0.474	0.907	-0.378	0.747	0.959	0.429	0.959	-0.474	0.353
546G	0.629	-0.474	0.870	-0.262	0.729	0.955	0.583	0.955	-0.474	0.433
547F	0.629	-1.306	0.870	-0.085	0.729	0.955	0.583	0.955	-1.306	0.339
548D	-0.237	-0.593	0.477	-0.334	0.401	0.468	1.180	1.180	-0.593	0.195
549V	-0.585	-1.538	0.515	-0.777	0.419	0.472	1.027	1.027	-1.538	-0.067
550A	-0.313	-1.849	0.795	-1.171	0.784	0.960	1.017	1.017	-1.849	0.032
551V	0.149	-1.274	1.113	-1.267	1.066	0.976	1.098	1.113	-1.274	0.266
552L	-0.604	-1.087	1.094	-0.955	0.984	0.506	1.439	1.439	-1.087	0.197
553D	0.123	-0.883	1.543	-0.585	1.358	1.104	0.824	1.543	-0.883	0.498
554Y	0.123	-1.536	1.702	-0.183	1.531	1.724	2.102	2.102	-1.536	0.780
555Y	0.490	-0.274	1.823	-0.158	1.540	1.722	0.503	1.823	-0.274	0.807
556E	0.806	0.133	1.898	-0.063	1.576	1.734	0.013	1.898	-0.063	0.871
557H	0.585	0.185	1.776	-0.120	1.412	1.265	0.182	1.776	-0.120	0.755
558A	0.838	0.634	1.524	-0.302	1.175	1.246	-1.161	1.524	-1.161	0.565
559M	1.318	1.173	1.262	-0.609	0.893	1.227	-1.492	1.318	-1.492	0.539
560S	1.457	1.287	1.206	-0.543	0.847	1.116	-1.475	1.457	-1.475	0.556
561A	1.957	0.922	1.318	-0.266	0.993	0.985	-1.751	1.957	-1.751	0.594
562G	1.957	0.922	1.318	0.279	0.993	0.985	-1.751	1.957	-1.751	0.672
563D	2.602	0.295	1.655	0.808	1.321	1.010	-1.533	2.602	-1.533	0.880
564D	2.324	-0.244	1.505	0.628	1.166	0.990	-2.703	2.324	-2.703	0.524
565A	2.324	-1.190	1.505	0.103	1.166	0.990	-2.703	2.324	-2.703	0.314
566Q	2.096	-1.286	1.515	-0.711	1.212	0.990	-3.713	2.096	-3.713	0.015
567A	1.344	-1.202	1.496	-1.384	1.130	0.521	-3.372	1.496	-3.372	-0.210
568A	0.477	-1.202	1.103	-1.796	0.802	0.033	-2.775	1.103	-2.775	-0.479
569A	0.838	-0.346	1.431	-1.849	1.166	0.633	-1.791	1.431	-1.849	0.012
570Y	0.591	-0.442	1.103	-1.948	0.793	0.590	-2.964	1.103	-2.964	-0.325
571V	0.869	0.455	1.253	-1.747	0.948	0.610	-1.794	1.253	-1.794	0.085
572E	0.503	0.227	1.132	-1.540	0.938	0.612	-0.195	1.132	-1.540	0.239
573A	0.699	-0.348	1.328	-1.048	1.093	0.632	0.856	1.328	-1.048	0.459
574S	0.313	0.507	0.935	-0.861	0.838	0.614	0.845	0.935	-0.861	0.456
575V	0.680	0.011	1.057	-0.897	0.847	0.613	-0.754	1.057	-0.897	0.222
576T	0.598	0.107	0.879	-1.105	0.638	0.033	-0.568	0.879	-1.105	0.083
577I	0.598	0.107	1.122	-1.054	0.911	0.052	0.662	1.122	-1.054	0.343
578A	0.319	0.790	0.973	-0.834	0.756	0.032	-0.507	0.973	-0.834	0.218
579S	0.933	1.417	1.421	-0.287	1.139	0.073	-0.933	1.421	-0.933	0.538
580P	0.737	1.137	1.468	-0.049	1.257	0.072	-0.754	1.468	-0.754	0.553
581A	1.603	0.778	1.599	-0.064	1.230	0.070	-1.075	1.603	-1.075	0.592
582Q	1.963	1.405	1.926	-0.293	1.595	0.670	-0.091	1.963	-0.293	1.025
583P	1.685	1.728	1.776	-0.701	1.440	0.650	-1.261	1.776	-1.261	0.759
584G	1.913	1.459	1.524	-1.142	1.121	0.631	-1.481	1.913	-1.481	0.575
585E	2.045	0.832	1.954	-1.597	1.595	1.255	-0.472	2.045	-1.597	0.802

586A	1.799	1.113	1.786	-1.550	1.394	1.833	-0.368	1.833	-1.550	0.858
587G	1.799	1.652	1.543	-1.293	1.121	1.814	-1.598	1.814	-1.598	0.720
588R	1.849	1.383	1.702	-0.419	1.321	1.834	-1.438	1.849	-1.438	0.890
589H	1.989	0.473	1.646	0.445	1.276	1.723	-1.421	1.989	-1.421	0.876
590A	1.989	0.874	1.889	1.195	1.549	1.742	-0.191	1.989	-0.191	1.292
591S	1.394	0.550	1.776	1.405	1.586	1.744	0.398	1.776	0.398	1.265
592D	1.457	-0.306	1.543	1.386	1.267	1.139	0.439	1.543	-0.306	0.989
593P	0.819	0.011	1.244	0.532	1.075	0.521	0.494	1.244	0.011	0.671
594V	0.819	0.011	1.244	-0.278	1.075	0.521	0.494	1.244	-0.278	0.555
595T	0.819	0.107	1.244	-0.992	1.075	0.521	0.494	1.244	-0.992	0.467
596I	0.319	0.107	1.216	-1.141	1.030	0.051	0.723	1.216	-1.141	0.329
597A	0.319	0.790	0.973	-0.834	0.756	0.032	-0.507	0.973	-0.834	0.218
598S	0.933	1.417	1.421	-0.287	1.139	0.073	-0.933	1.421	-0.933	0.538
599P	0.737	1.137	1.468	-0.049	1.257	0.072	-0.754	1.468	-0.754	0.553
600A	1.603	0.778	1.599	-0.064	1.230	0.070	-1.075	1.603	-1.075	0.592
601Q	1.963	1.405	1.926	-0.293	1.595	0.670	-0.091	1.963	-0.293	1.025
602P	1.685	1.728	1.776	-0.701	1.440	0.650	-1.261	1.776	-1.261	0.759
603G	1.913	1.459	1.524	-1.142	1.121	0.631	-1.481	1.913	-1.481	0.575
604E	2.045	0.832	1.954	-1.597	1.595	1.255	-0.472	2.045	-1.597	0.802
605A	1.799	1.113	1.786	-1.550	1.394	1.833	-0.368	1.833	-1.550	0.858
606G	1.799	1.652	1.543	-1.293	1.121	1.814	-1.598	1.814	-1.598	0.720
607R	1.849	1.383	1.702	-0.419	1.321	1.834	-1.438	1.849	-1.438	0.890
608H	1.989	0.473	1.646	0.445	1.276	1.723	-1.421	1.989	-1.421	0.876
609A	1.989	0.874	1.889	1.195	1.549	1.742	-0.191	1.989	-0.191	1.292
610S	1.394	1.730	1.776	1.405	1.586	1.744	0.398	1.776	0.398	1.433
611D	1.457	1.706	1.543	1.386	1.267	1.139	0.439	1.706	0.439	1.277
612P	1.736	1.658	1.533	0.888	1.248	0.539	0.332	1.736	0.332	1.133
613V	1.963	1.203	1.982	0.472	1.886	1.134	1.407	1.982	0.472	1.435
614T	1.881	0.796	2.029	0.157	1.886	1.134	1.288	2.029	0.157	1.310
615S	1.015	0.932	1.636	-0.171	1.558	0.647	1.886	1.886	-0.171	1.072
616K	0.250	-0.019	1.412	-0.550	1.303	0.653	1.688	1.688	-0.550	0.677
617T	0.844	-0.224	1.524	-1.031	1.267	0.651	1.099	1.524	-1.031	0.590
618V	0.281	-1.039	1.206	-1.513	1.103	0.633	1.647	1.647	-1.513	0.331
619W	0.231	-0.943	1.047	-1.886	0.902	0.613	1.488	1.488	-1.886	0.207
620G	-0.635	-0.082	0.459	-2.035	0.246	0.020	1.745	1.745	-2.035	-0.040
621V	-0.831	0.147	0.262	-2.210	0.091	0.000	0.694	0.694	-2.210	-0.264
622G	-0.465	-0.082	0.627	-2.176	0.373	0.017	0.325	0.627	-2.176	-0.197
623I	0.579	-0.218	0.758	-1.779	0.510	0.012	0.462	0.758	-1.779	0.046
624A	-0.288	0.598	0.627	-1.287	0.537	0.014	0.784	0.784	-1.287	0.141
625P	0.275	0.598	0.945	-0.620	0.701	0.032	0.236	0.945	-0.620	0.310
626S	0.244	1.095	1.150	-0.343	0.902	0.052	0.276	1.150	-0.343	0.482
627I	0.882	0.035	1.290	-0.380	0.920	0.051	-1.055	1.290	-1.055	0.249
628T	1.160	1.173	1.440	-0.408	1.075	0.071	0.114	1.440	-0.408	0.661
629T	0.446	0.682	1.113	-0.467	0.811	0.057	0.330	1.113	-0.467	0.424
630A	0.300	0.095	1.393	-0.566	1.130	0.662	0.169	1.393	-0.566	0.455
631S	0.939	-0.001	1.533	-0.782	1.148	0.660	-1.163	1.533	-1.163	0.333
632L	0.376	-0.001	1.216	-1.322	0.984	0.641	-0.615	1.216	-1.322	0.183
633R	-0.186	0.203	0.898	-1.897	0.820	0.623	-0.067	0.898	-1.897	0.056
634A	0.092	-0.707	1.047	-1.893	0.975	0.643	1.103	1.103	-1.893	0.180
635V	-0.186	-0.098	0.898	-1.748	0.820	0.623	-0.067	0.898	-1.748	0.035
636V	0.161	0.812	0.860	-1.249	0.802	0.619	0.087	0.860	-1.249	0.299
637S	0.338	0.908	0.730	-0.571	0.638	0.035	-0.025	0.908	-0.571	0.293
638A	0.471	0.053	1.160	-0.204	1.112	0.660	0.984	1.160	-0.204	0.605
639V	0.838	0.866	1.281	0.080	1.121	0.658	-0.615	1.281	-0.615	0.604
640N	1.205	1.217	1.403	-0.020	1.130	0.657	-2.214	1.403	-2.214	0.482
641R	1.059	0.862	1.683	-0.631	1.449	1.261	-2.375	1.683	-2.375	0.473
642A	0.926	0.303	1.225	-1.308	1.768	1.321	-2.375	1.768	-2.375	0.266
643A	1.160	0.558	0.889	-1.651	2.096	1.380	-3.973	2.096	-3.973	0.065
644R	0.718	0.812	0.132	-1.719	2.105	1.399	-4.871	2.105	-4.871	-0.203

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]VTTSESPDAYTESFGAHTIVKPAGPPRVGQPSWNPQRASSMPVNRYRPFAEEVEPIRLRNRTWPDRVIDRAPL WCAVDLRDGNQALIDPMSPARKRRMFDLLVRMGYKEIEVGFPSASQTDFDFVREIIEQGAIPDDVTIQVLTQCR PELIERTFQACSGAPRAIVHFYNSTSILQRRVVFRANRAEVQAIATDGARKCVEQAAKYPGTQWRFEYSPESYT GTELEYAKQVCDAVGEVIAPTPERPIIFNLPATVEMTTPNVYADSIEWMSRNLANRESVILSLHPHNDRGTAVAAA ELGFAAGADRIEGCLFGNGERTGNVCLVTLGLNLFSRGVDPQIDFSNIDEIRRTVEYCNQLPVHERHPYGGDLV YTAFSGSHQDAINKGLDAMKLDADAADCDVDDMLWQVPYLPIDPRDVGRTYEAVIRVNSQSGKGGVAYIMKTD HGLSLPRRLQIEFSQVIQKIAEGTAGEGGEVSPKEMWDAFAEEYLAPVRPLERIRQHVDAADDDGGTTSITATVK INGVETEISGSGNGPLAAFVHALADVGFDVAVLDYYEHAMSAGDDAQAAAYVEASVTIASPAQPGEAGRHASD PVTIASPAQPGEAGRHASDPVTSKTVWGVGIAPSITTASLRAVVSAVNRAAR[644]
Hydrophilicity	[1]VTTSESPDAYTESFGAHTIVKPAGPPRVGQPSWNPQRASSMPVNRYRPFAEEVEPIRLRNRTWPDRVIDRAPL WCAVDLRDGNQALIDPMSPARKRRMFDLLVRMGYKEIEVGFPSASQTDFDFVREIIEQGAIPDDVTIQVLTQCR PELIERTFQACSGAPRAIVHFYNSTSILQRRVVFRANRAEVQAIATDGARKCVEQAAKYPGTQWRFEYSPESYT GTELEYAKQVCDAVGEVIAPTPERPIIFNLPATVEMTTPNVYADSIEWMSRNLANRESVILSLHPHNDRGTAVAAA ELGFAAGADRIEGCLFGNGERTGNVCLVTLGLNLFSRGVDPQIDFSNIDEIRRTVEYCNQLPVHERHPYGGDLV YTAFSGSHQDAINKGLDAMKLDADAADCDVDDMLWQVPYLPIDPRDVGRTYEAVIRVNSQSGKGGVAYIMKTD HGLSLPRRLQIEFSQVIQKIAEGTAGEGGEVSPKEMWDAFAEEYLAPVRPLERIRQHVDAADDDGGTTSITATVK INGVETEISGSGNGPLAAFVHALADVGFDVAVLDYYEHAMSAGDDAQAAAYVEASVTIASPAQPGEAGRHASD PVTIASPAQPGEAGRHASDPVTSKTVWGVGIAPSITTASLRAVVSAVNRAAR[644]
Flexibility	[1]