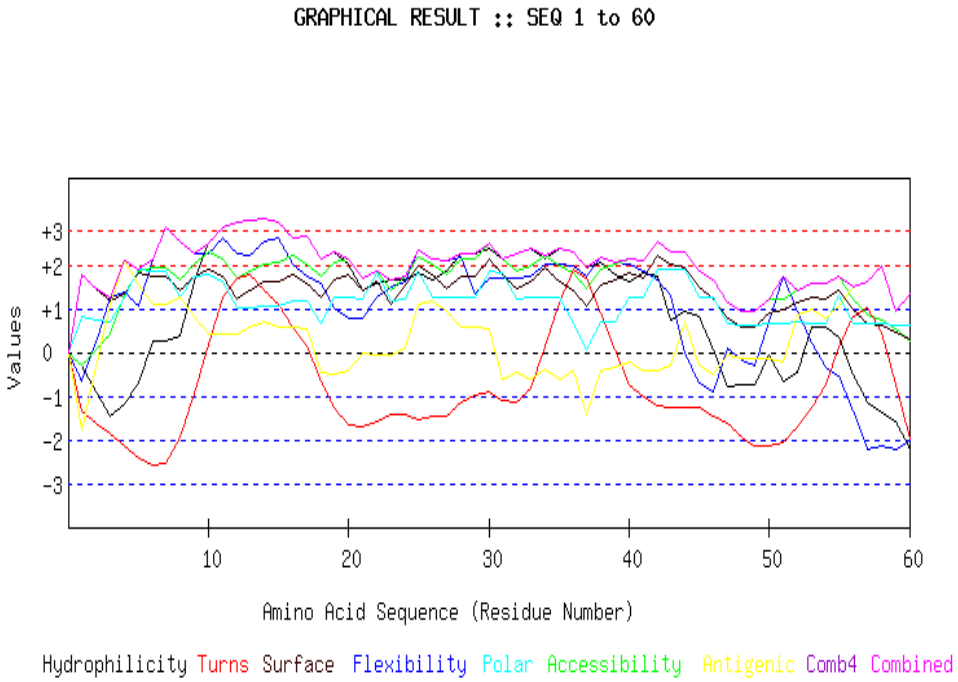
BcePred Prediction Server

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

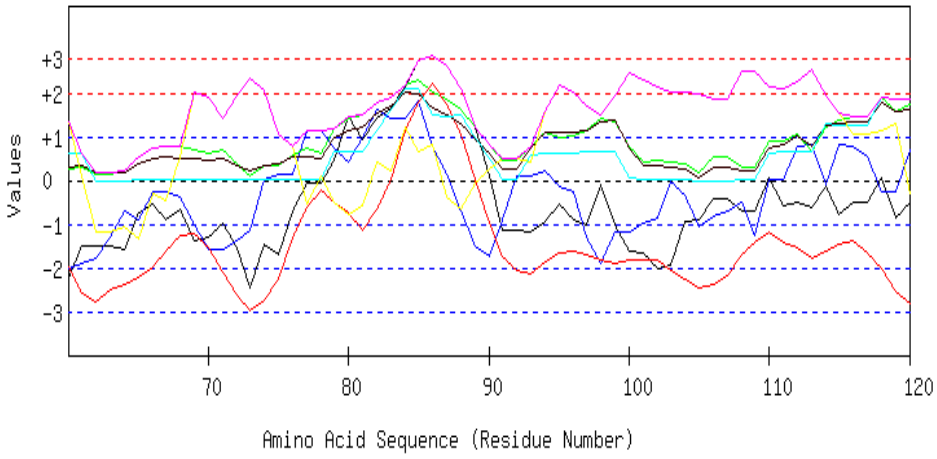
seqname=
Seq=VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVAALLTTLG
LIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITIVMLVLVLVPGIGKEANG
SRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLVPAAVVALALIVAQPDLGQTVSMGIILLG
LLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSWLNPENDPQDSGYQARQAKFALAQGGIFGDGLGQG
VAKWNYLPNAHNDFIFAIIGEELGLVGALGLLGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGL
LPVTGLQLPLISAGGTSTAATLSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRAN
PQPAQTQPARKTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG

Length=524

GRAPHICAL RESULT

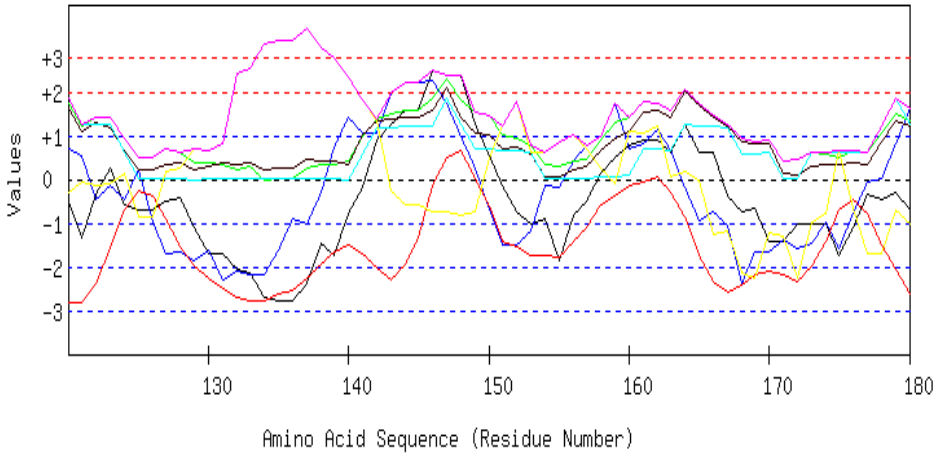


GRAPHICAL RESULT :: SEQ 61 to 120



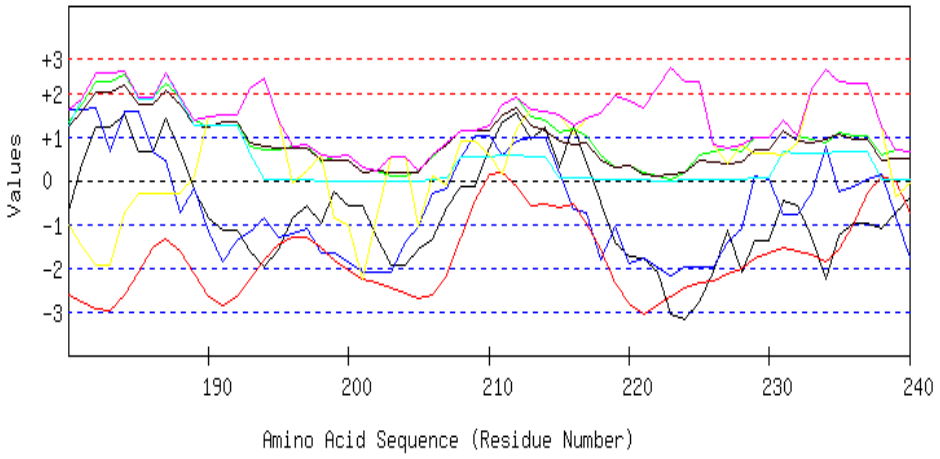
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180

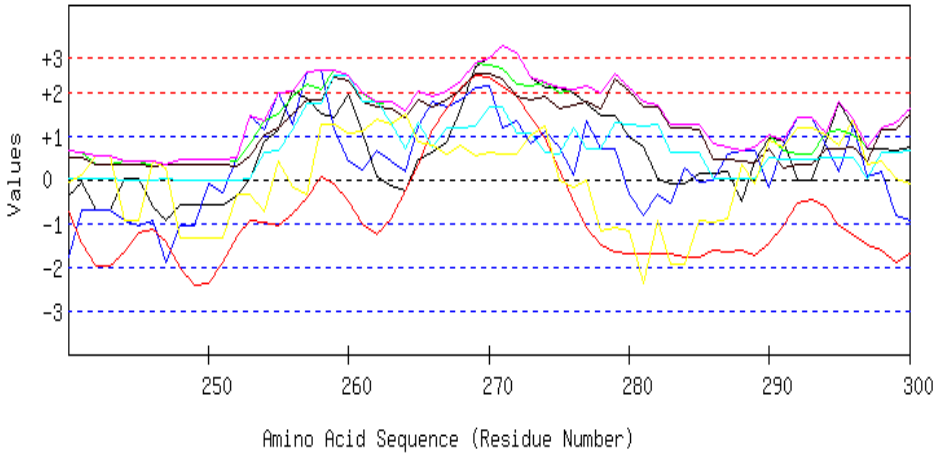


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

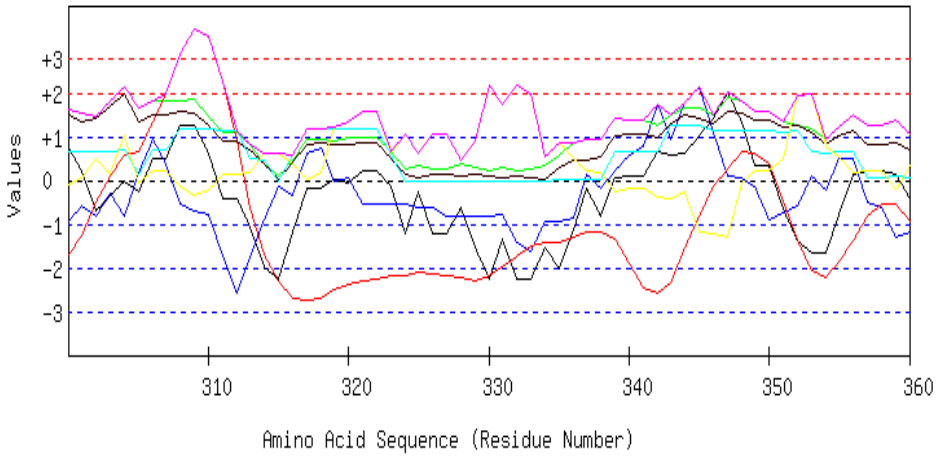
GRAPHICAL RESULT :: SEQ 181 to 240



GRAPHICAL RESULT :: SEQ 241 to 300

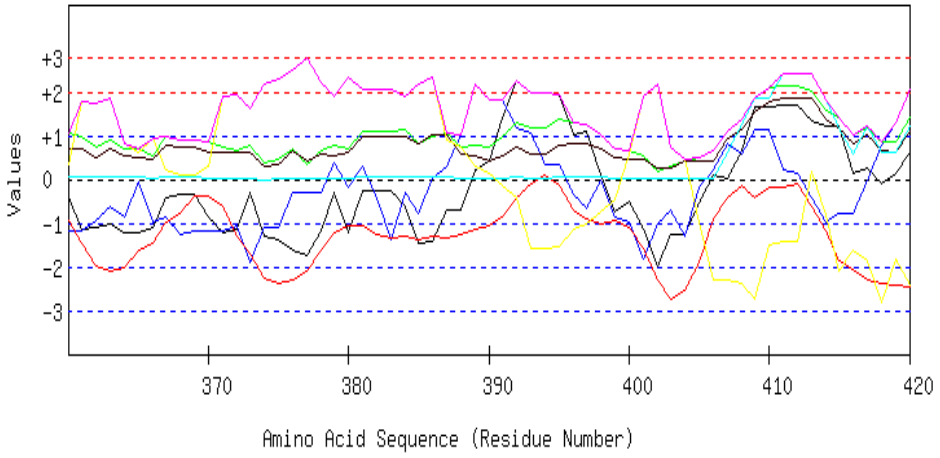


GRAPHICAL RESULT :: SEQ 301 to 360



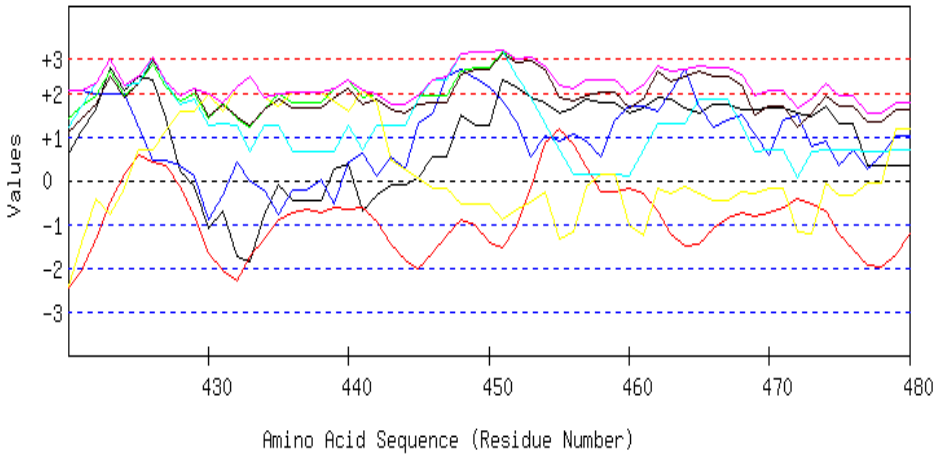
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



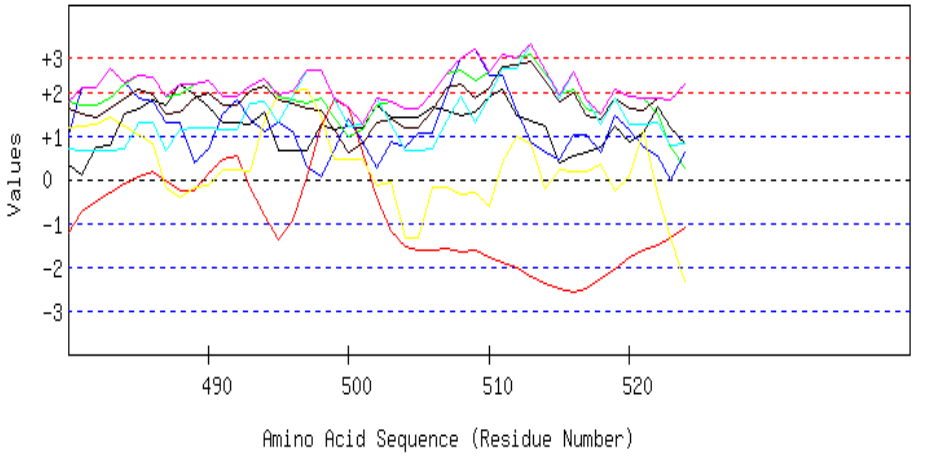
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

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

VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLI
IAVAALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMR
RIAFSGFAITIVMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAA
RRMERASLREMLIPLVPAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSL
AAVVVSAAILAVSAGYRSDRVRSWLNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVA
KWNYLPNAHNDFIFAIIGEELGLVGALGLLGLFGLFAYTGMRIASRSADPFLRLLTATTT
LWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAATLSLIGIIANAARHEPEAVAALR
AGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPARKTPRTAPGQPARQMGL
PPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG

Length=524

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 V	-0.300	-0.679	-0.308	-1.352	1.786	0.802	-1.785	1.786	-1.785	-0.262
2 L	-0.882	0.231	0.066	-1.608	1.476	0.747	-0.340	1.476	-1.608	-0.044
3 T	-1.464	1.249	0.440	-1.852	1.166	0.692	1.105	1.249	-1.852	0.191
4 R	-1.198	1.385	1.328	-2.127	1.321	1.257	2.114	2.114	-2.127	0.583
5 L	-0.698	1.062	1.879	-2.431	1.804	1.880	1.525	1.880	-2.431	0.717
6 L	0.244	2.122	1.954	-2.585	1.750	1.875	1.090	2.122	-2.585	0.921
7 R	0.244	2.866	1.954	-2.534	1.750	1.875	1.090	2.866	-2.534	1.035
8 R	0.389	2.543	1.674	-1.944	1.431	1.270	1.251	2.543	-1.944	0.945
9 G	1.603	2.269	2.029	-0.938	1.741	1.754	0.807	2.269	-0.938	1.323
10 T	2.513	2.269	2.309	0.193	1.886	1.768	0.413	2.513	0.193	1.622
11 S	2.880	2.633	2.150	1.268	1.731	1.632	0.405	2.880	0.405	1.814
12 D	2.975	2.269	1.711	1.692	1.212	1.008	0.406	2.975	0.406	1.610
13 T	3.025	2.221	1.870	1.764	1.412	1.028	0.565	3.025	0.565	1.698
14 D	3.076	2.543	2.001	1.410	1.631	1.050	0.688	3.076	0.688	1.771
15 G	2.994	2.631	2.047	1.097	1.631	1.050	0.569	2.994	0.569	1.717
16 S	2.627	2.004	2.206	0.585	1.786	1.186	0.577	2.627	0.577	1.567
17 Q	2.659	1.724	2.001	0.137	1.586	1.166	0.536	2.659	0.137	1.401
18 T	2.159	1.591	1.730	-0.649	1.267	0.677	-0.465	2.159	-0.649	0.901
19 R	2.292	1.004	2.066	-1.250	1.677	1.276	-0.491	2.292	-1.250	0.939
20 G	2.014	0.766	2.160	-1.657	1.795	1.275	-0.431	2.160	-1.657	0.846
21 A	1.401	0.766	1.711	-1.692	1.412	1.235	-0.006	1.711	-1.692	0.690
22 E	1.565	1.257	1.842	-1.565	1.622	1.814	-0.073	1.842	-1.565	0.923
23 P	1.660	1.495	1.403	-1.435	1.103	1.190	-0.072	1.660	-1.435	0.763
24 V	1.679	1.627	1.739	-1.425	1.522	1.232	0.091	1.739	-1.425	0.924
25 E	1.812	2.351	2.169	-1.558	1.996	1.857	1.101	2.351	-1.558	1.389
26 G	1.647	2.134	2.038	-1.463	1.786	1.277	1.168	2.134	-1.463	1.227
27 Q	1.875	2.082	1.786	-1.444	1.467	1.258	0.948	2.082	-1.444	1.139
28 R	2.241	2.166	2.150	-1.137	1.750	1.275	0.579	2.241	-1.137	1.289
29 T	2.241	1.353	2.150	-0.985	1.750	1.275	0.579	2.241	-0.985	1.195
30 G	2.374	1.718	2.487	-0.890	2.160	1.875	0.553	2.487	-0.890	1.468
31 P	2.128	1.700	2.160	-1.117	1.786	1.833	-0.621	2.160	-1.117	1.124

32 E	2.273	1.700	1.879	-1.157	1.467	1.228	-0.460	2.273	-1.157	0.990
33 E	2.387	1.752	1.982	-0.823	1.622	1.249	-0.614	2.387	-0.823	1.079
34 A	2.159	2.032	2.234	0.134	1.941	1.268	-0.394	2.234	-0.394	1.339
35 S	2.387	2.032	1.982	1.155	1.622	1.249	-0.614	2.387	-0.614	1.402
36 N	2.305	1.990	1.804	1.900	1.412	0.669	-0.428	2.305	-0.428	1.379
37 P	1.944	1.740	1.477	1.683	1.048	0.070	-1.412	1.944	-1.412	0.936
38 G	2.077	2.194	1.907	0.903	1.522	0.694	-0.402	2.194	-0.402	1.271
39 S	1.799	2.058	2.001	0.053	1.640	0.693	-0.342	2.058	-0.342	1.129
40 A	1.622	2.016	2.132	-0.740	1.804	1.277	-0.230	2.132	-0.740	1.126
41 R	1.818	1.842	2.085	-1.040	1.686	1.278	-0.409	2.085	-1.040	1.037
42 P	1.723	1.656	2.524	-1.210	2.205	1.903	-0.410	2.524	-1.210	1.199
43 R	0.730	1.297	2.309	-1.257	2.005	1.887	-0.319	2.309	-1.257	0.950
44 T	0.958	-0.019	2.300	-1.278	1.959	1.887	0.691	2.300	-1.278	0.928
45 R	0.825	-0.715	1.870	-1.253	1.485	1.262	-0.318	1.870	-1.253	0.451
46 F	0.060	-0.901	1.646	-1.464	1.230	1.269	-0.516	1.646	-1.464	0.189
47 G	-0.787	0.087	1.132	-1.616	0.765	0.649	-0.080	1.132	-1.616	0.021
48 A	-0.755	-0.182	0.926	-1.944	0.565	0.629	-0.120	0.926	-1.944	-0.126
49 W	-0.755	-0.296	0.926	-2.157	0.565	0.629	-0.120	0.926	-2.157	-0.173
50 L	-0.041	0.698	1.234	-2.142	0.884	0.644	-0.151	1.234	-2.142	0.161
51 G	-0.667	1.758	1.234	-2.045	0.975	0.661	-0.207	1.758	-2.045	0.244
52 R	-0.471	0.956	1.431	-1.705	1.130	0.681	0.844	1.431	-1.705	0.409
53 P	0.572	0.233	1.561	-1.280	1.267	0.676	0.982	1.561	-1.280	0.573
54 M	0.572	-0.330	1.580	-0.727	1.212	0.675	0.798	1.580	-0.727	0.540
55 T	0.345	-0.540	1.748	0.126	1.431	1.295	1.065	1.748	-0.540	0.781
56 S	-0.503	-1.356	1.234	0.838	0.966	0.675	1.501	1.501	-1.356	0.479
57 F	-1.141	-2.211	0.851	1.007	0.674	0.658	1.602	1.602	-2.211	0.206
58 H	-1.381	-2.133	0.720	0.444	0.610	0.643	1.979	1.979	-2.133	0.126
59 L	-1.577	-2.223	0.524	-0.721	0.455	0.623	0.928	0.928	-2.223	-0.284
60 I	-2.222	-2.019	0.253	-1.986	0.291	0.604	1.357	1.357	-2.222	-0.532
61 I	-1.508	-1.899	0.318	-2.571	0.337	0.600	0.096	0.600	-2.571	-0.661
62 A	-1.508	-1.779	0.160	-2.763	0.164	-0.020	-1.181	0.164	-2.763	-0.990
63 V	-1.508	-1.288	0.160	-2.512	0.164	-0.020	-1.181	0.164	-2.512	-0.884
64 A	-1.584	-0.701	0.216	-2.367	0.191	-0.016	-1.068	0.216	-2.367	-0.761
65 A	-0.749	-0.905	0.552	-2.211	0.364	0.002	-1.349	0.552	-2.211	-0.614
66 L	-0.553	-0.278	0.748	-1.972	0.519	0.022	-0.298	0.748	-1.972	-0.259
67 L	-0.901	-0.278	0.786	-1.623	0.537	0.026	-0.452	0.786	-1.623	-0.272
68 T	-0.673	-0.398	0.776	-1.274	0.492	0.026	0.558	0.776	-1.274	-0.070
69 T	-1.388	-1.003	0.692	-1.232	0.501	0.031	2.003	2.003	-1.388	-0.056
70 L	-1.312	-1.590	0.636	-1.554	0.474	0.028	1.890	1.890	-1.590	-0.204
71 G	-0.996	-1.590	0.711	-2.100	0.510	0.040	1.400	1.400	-2.100	-0.289
72 L	-1.558	-1.362	0.393	-2.634	0.346	0.021	1.948	1.948	-2.634	-0.407
73 I	-2.469	-1.158	0.113	-2.989	0.200	0.007	2.342	2.342	-2.989	-0.565
74 M	-1.476	0.023	0.346	-2.727	0.346	0.021	2.067	2.067	-2.727	-0.200
75 V	-1.704	0.137	0.356	-2.257	0.392	0.021	1.057	1.057	-2.257	-0.285
76 L	-0.711	0.137	0.589	-1.310	0.537	0.036	0.782	0.782	-1.310	0.009
77 S	-0.073	1.155	0.730	-0.619	0.556	0.034	-0.550	1.155	-0.619	0.176
78 A	-0.041	1.155	0.618	-0.227	0.501	0.019	0.094	1.155	-0.227	0.302
79 S	0.459	0.748	1.169	-0.506	0.984	0.642	-0.496	1.169	-0.506	0.428
80 A	1.451	0.431	1.403	-0.750	1.130	0.656	-0.771	1.451	-0.771	0.507
81 V	0.920	0.970	1.505	-1.130	1.212	0.656	-0.599	1.505	-1.130	0.505
82 R	1.420	1.605	1.776	-0.668	1.531	1.144	0.402	1.776	-0.668	1.030
83 S	1.641	1.419	1.898	0.028	1.695	1.613	0.234	1.898	0.028	1.218
84 Y	2.140	1.419	2.169	1.135	2.014	2.102	1.235	2.169	1.135	1.745
85 D	2.735	1.826	2.281	1.792	1.977	2.101	0.646	2.735	0.646	1.908
86 D	2.880	0.784	2.001	2.205	1.658	1.496	0.807	2.880	0.784	1.690
87 D	2.602	0.149	1.851	1.745	1.504	1.476	-0.363	2.602	-0.363	1.281
88 G	2.090	-0.715	1.617	1.071	1.285	1.482	-0.673	2.090	-0.715	0.880
89 S	1.224	-1.516	1.225	0.028	0.957	0.995	-0.075	1.225	-1.516	0.405
90 A	0.085	-1.745	0.814	-0.978	0.619	0.507	0.256	0.814	-1.745	-0.063
91 W	-1.128	-0.913	0.477	-1.749	0.255	0.023	0.516	0.516	-1.749	-0.360
92 V	-1.128	0.081	0.477	-2.056	0.255	0.023	0.516	0.516	-2.056	-0.262
93 I	-1.179	0.081	0.776	-2.141	0.738	0.597	0.421	0.776	-2.141	-0.101

94 F	-0.932	0.201	1.103	-1.858	1.112	0.640	1.594	1.594	-1.858	0.266
95 G	-0.534	-0.128	0.963	-1.662	1.084	0.616	2.161	2.161	-1.662	0.357
96 K	-0.882	-0.264	1.001	-1.632	1.103	0.620	2.007	2.007	-1.632	0.279
97 Q	-1.008	-1.300	1.160	-1.708	1.139	0.643	1.708	1.708	-1.708	0.090
98 V	-0.098	-1.887	1.421	-1.820	1.339	0.659	1.497	1.497	-1.887	0.159
99 L	-1.040	-1.164	1.346	-1.906	1.394	0.664	1.932	1.932	-1.906	0.175
100W	-1.634	-1.164	0.776	-1.823	0.747	0.071	2.456	2.456	-1.823	-0.082
101T	-1.653	-0.985	0.440	-1.813	0.328	0.029	2.293	2.293	-1.813	-0.195
102L	-2.001	-0.849	0.477	-1.834	0.346	0.033	2.139	2.139	-2.001	-0.241
103V	-1.925	-0.017	0.421	-2.054	0.319	0.029	2.025	2.025	-2.054	-0.172
104G	-0.932	-0.328	0.393	-2.249	0.255	0.004	2.003	2.003	-2.249	-0.122
105L	-0.901	-1.051	0.188	-2.455	0.054	-0.016	1.963	1.963	-2.455	-0.317
106I	-0.439	-0.811	0.524	-2.363	0.282	-0.002	1.860	1.860	-2.363	-0.136
107G	-0.439	-0.691	0.524	-2.160	0.282	-0.002	1.860	1.860	-2.160	-0.089
108G	-0.711	-0.504	0.318	-1.716	0.237	0.016	2.482	2.482	-1.716	0.017
109Y	-0.711	-1.246	0.318	-1.401	0.237	0.016	2.482	2.482	-1.401	-0.044
110V	0.060	0.017	0.889	-1.189	0.729	0.639	2.160	2.160	-1.189	0.472
111C	-0.566	0.017	0.889	-1.413	0.820	0.656	2.104	2.104	-1.413	0.358
112L	-0.515	0.794	1.047	-1.556	1.020	0.676	2.264	2.264	-1.556	0.533
113R	-0.629	0.824	0.674	-1.769	0.774	0.658	2.520	2.520	-1.769	0.436
114M	-0.129	-0.104	1.225	-1.614	1.257	1.281	1.931	1.931	-1.614	0.550
115S	-0.800	0.824	1.375	-1.442	1.303	1.268	1.560	1.560	-1.442	0.584
116V	-0.484	0.782	1.449	-1.398	1.339	1.279	1.069	1.449	-1.398	0.577
117R	-0.484	0.554	1.449	-1.652	1.339	1.279	1.069	1.449	-1.652	0.508
118F	0.048	-0.260	1.889	-2.012	1.768	1.887	1.124	1.889	-2.012	0.635
119M	-0.869	-0.260	1.599	-2.539	1.595	1.869	1.286	1.869	-2.539	0.383
120R	-0.503	0.710	1.720	-2.831	1.604	1.867	-0.313	1.867	-2.831	0.322
121R	-1.350	0.523	1.225	-2.822	1.084	1.247	-0.061	1.247	-2.822	-0.022
122I	-0.357	-0.464	1.440	-2.390	1.285	1.262	-0.153	1.440	-2.390	0.089
123A	0.269	-0.140	1.440	-1.586	1.194	1.245	-0.097	1.440	-1.586	0.332
124F	-0.578	-0.464	0.945	-0.689	0.674	0.625	0.155	0.945	-0.689	0.095
125S	-0.711	0.201	0.515	-0.255	0.200	0.000	-0.854	0.515	-0.854	-0.129
126G	-0.711	-0.979	0.515	-0.396	0.200	0.000	-0.854	0.515	-0.979	-0.318
127F	-0.515	-1.703	0.711	-0.888	0.355	0.020	0.197	0.711	-1.703	-0.260
128A	-0.439	-1.642	0.636	-1.527	0.382	0.018	0.267	0.636	-1.642	-0.329
129I	-1.084	-1.847	0.365	-1.978	0.218	-0.001	0.696	0.696	-1.978	-0.519
130T	-1.710	-1.618	0.365	-2.255	0.310	0.016	0.640	0.640	-2.255	-0.607
131I	-1.710	-2.314	0.346	-2.498	0.364	0.018	0.824	0.824	-2.498	-0.710
132V	-2.077	-2.085	0.225	-2.720	0.355	0.019	2.423	2.423	-2.720	-0.551
133M	-2.153	-2.193	0.281	-2.764	0.382	0.023	2.536	2.536	-2.764	-0.555
134L	-2.715	-2.175	-0.037	-2.788	0.218	0.004	3.084	3.084	-2.788	-0.630
135V	-2.791	-1.612	0.019	-2.617	0.246	0.008	3.198	3.198	-2.791	-0.507
136L	-2.791	-0.889	0.019	-2.525	0.246	0.008	3.198	3.198	-2.791	-0.391
137V	-2.393	-1.009	0.272	-2.258	0.474	0.010	3.473	3.473	-2.393	-0.205
138L	-1.451	-0.286	0.346	-1.959	0.419	0.004	3.038	3.038	-1.959	0.016
139V	-1.723	0.750	0.328	-1.673	0.410	0.005	2.771	2.771	-1.723	0.124
140P	-0.781	1.421	0.403	-1.519	0.355	-0.001	2.336	2.336	-1.519	0.316
141G	-0.186	1.062	0.973	-1.707	1.002	0.592	1.813	1.813	-1.707	0.507
142I	0.888	1.044	1.384	-2.039	1.358	1.186	1.351	1.384	-2.039	0.739
143G	1.255	1.996	1.505	-2.296	1.367	1.185	-0.247	1.996	-2.296	0.681
144K	1.565	2.225	1.561	-1.957	1.403	1.206	-0.580	2.225	-1.957	0.775
145E	1.565	2.207	1.561	-1.322	1.403	1.206	-0.580	2.207	-1.322	0.863
146A	2.482	2.259	1.851	-0.152	1.576	1.225	-0.742	2.482	-0.742	1.214
147N	2.387	1.756	2.290	0.487	2.096	1.849	-0.743	2.387	-0.743	1.446
148G	2.387	0.972	1.832	0.677	1.412	1.255	-0.808	2.387	-0.808	1.104
149S	1.261	0.249	1.524	0.025	1.066	0.680	-0.760	1.524	-0.760	0.578
150R	0.547	-0.703	1.459	-0.630	1.020	0.685	0.502	1.459	-0.703	0.411
151G	-0.129	-1.516	1.038	-1.410	0.701	0.646	1.203	1.203	-1.516	0.076
152W	-0.724	-1.516	0.926	-1.535	0.738	0.647	1.792	1.792	-1.535	0.047
153F	-1.002	-1.188	0.776	-1.722	0.583	0.627	0.622	0.776	-1.722	-0.186
154V	-0.907	-0.158	0.337	-1.733	0.063	0.002	0.623	0.623	-1.733	-0.253
155V	-1.849	-0.176	0.281	-1.774	0.063	0.007	0.874	0.874	-1.849	-0.368

156A	-0.806	0.411	0.412	-1.430	0.200	0.001	1.012	1.012	-1.430	-0.028
157G	-0.490	0.770	0.468	-1.094	0.291	0.014	0.705	0.770	-1.094	0.095
158F	0.123	0.998	0.917	-0.595	0.674	0.055	0.280	0.998	-0.595	0.350
159S	0.490	1.748	1.281	-0.375	0.957	0.073	-0.089	1.748	-0.375	0.583
160M	0.768	0.688	1.431	-0.157	1.112	0.093	1.081	1.431	-0.157	0.716
161Q	0.901	0.802	1.767	-0.050	1.522	0.692	1.054	1.767	-0.050	0.955
162P	0.901	1.143	1.748	0.065	1.576	0.694	1.238	1.748	0.065	1.052
163S	0.623	0.670	1.599	-0.283	1.422	0.673	0.068	1.599	-0.283	0.682
164E	1.249	-0.186	2.057	-0.862	2.014	1.251	0.188	2.057	-0.862	0.816
165L	0.604	-0.935	1.720	-1.743	1.686	1.226	-0.030	1.720	-1.743	0.361
166A	0.604	-0.731	1.477	-2.354	1.412	1.207	-1.260	1.477	-2.354	0.051
167K	-0.389	-1.055	1.262	-2.592	1.212	1.191	-1.169	1.262	-2.592	-0.220
168M	-0.749	-2.390	0.935	-2.432	0.847	0.591	-2.153	0.935	-2.432	-0.764
169A	-0.673	-1.648	0.879	-2.200	0.820	0.588	-2.266	0.879	-2.266	-0.643
170F	-1.438	-1.648	0.898	-2.083	0.838	0.613	-1.234	0.898	-2.083	-0.579
171A	-1.438	-1.384	0.440	-2.161	0.155	0.018	-1.298	0.440	-2.161	-0.810
172I	-1.040	-1.588	0.449	-2.322	0.109	0.001	-2.253	0.449	-2.322	-0.949
173W	-1.040	-1.468	0.608	-1.960	0.282	0.621	-0.976	0.621	-1.960	-0.562
174G	-1.040	-0.965	0.589	-1.432	0.337	0.622	-0.792	0.622	-1.432	-0.383
175A	-1.754	-1.592	0.505	-0.699	0.346	0.628	0.653	0.653	-1.754	-0.273
176H	-1.116	-0.779	0.646	-0.455	0.364	0.626	-0.679	0.646	-1.116	-0.199
177L	-0.351	-0.056	0.627	-0.779	0.346	0.601	-1.711	0.627	-1.711	-0.189
178L	-0.446	0.035	1.066	-1.520	0.866	1.225	-1.712	1.225	-1.712	-0.069
179A	-0.313	0.814	1.496	-2.058	1.339	1.850	-0.703	1.850	-2.058	0.347
180A	-0.711	1.627	1.328	-2.608	1.212	1.247	-1.025	1.627	-2.608	0.153
181R	0.364	1.627	1.739	-2.762	1.567	1.841	-1.487	1.841	-2.762	0.413
182R	1.211	1.670	2.253	-2.932	2.032	2.461	-1.923	2.461	-2.932	0.682
183M	1.211	0.652	2.253	-2.963	2.032	2.461	-1.923	2.461	-2.963	0.532
184E	1.489	1.579	2.403	-2.604	2.187	2.481	-0.753	2.481	-2.604	0.969
185R	0.642	1.579	1.889	-2.098	1.722	1.861	-0.317	1.889	-2.098	0.754
186A	0.642	0.652	1.889	-1.554	1.722	1.861	-0.317	1.889	-1.554	0.699
187S	1.401	0.447	2.225	-1.331	2.041	2.444	-0.288	2.444	-1.331	0.991
188L	0.642	-0.733	1.889	-1.611	1.722	1.861	-0.317	1.889	-1.611	0.493
189R	-0.205	-0.170	1.375	-2.154	1.257	1.242	0.119	1.375	-2.154	0.209
190E	-0.844	-1.188	1.234	-2.670	1.239	1.244	1.451	1.451	-2.670	0.067
191M	-1.122	-1.859	1.328	-2.848	1.358	1.243	1.511	1.511	-2.848	-0.056
192L	-1.122	-1.386	1.328	-2.668	1.358	1.243	1.511	1.511	-2.668	0.038
193I	-1.622	-1.182	0.776	-2.260	0.875	0.620	2.101	2.101	-2.260	-0.099
194P	-1.982	-0.857	0.692	-1.808	0.784	0.039	2.347	2.347	-1.982	-0.112
195L	-1.584	-1.312	0.702	-1.462	0.738	0.022	1.392	1.392	-1.584	-0.215
196V	-0.869	-1.204	0.786	-1.314	0.729	0.017	-0.053	0.786	-1.314	-0.273
197P	-0.597	-1.107	0.804	-1.290	0.738	0.016	0.214	0.804	-1.290	-0.175
198A	-0.964	-1.670	0.440	-1.547	0.455	-0.001	0.583	0.583	-1.670	-0.386
199A	-0.250	-1.670	0.524	-1.813	0.446	-0.006	-0.862	0.524	-1.813	-0.519
200V	-0.597	-1.875	0.561	-2.057	0.465	-0.003	-1.016	0.561	-2.057	-0.646
201V	-0.597	-2.103	0.318	-2.267	0.191	-0.022	-2.246	0.318	-2.267	-0.961
202A	-1.312	-2.103	0.234	-2.327	0.200	-0.016	-0.801	0.234	-2.327	-0.875
203L	-1.950	-2.103	0.094	-2.454	0.182	-0.014	0.531	0.531	-2.454	-0.816
204A	-1.950	-1.408	0.094	-2.584	0.182	-0.014	0.531	0.531	-2.584	-0.736
205L	-1.584	-1.049	0.216	-2.704	0.191	-0.016	-1.068	0.216	-2.704	-0.859
206I	-1.337	-0.306	0.543	-2.604	0.565	0.026	0.105	0.565	-2.604	-0.430
207V	-0.623	-0.186	0.870	-2.170	0.829	0.040	-0.110	0.870	-2.170	-0.193
208A	-0.123	0.538	1.141	-1.293	1.148	0.529	0.891	1.148	-1.293	0.404
209Q	-0.123	1.028	1.141	-0.461	1.148	0.529	0.891	1.148	-0.461	0.593
210P	0.743	1.028	1.272	0.160	1.121	0.527	0.570	1.272	0.160	0.774
211D	1.356	0.574	1.720	0.166	1.504	0.568	0.145	1.720	0.145	0.862
212L	1.552	0.890	1.917	-0.135	1.658	0.588	1.195	1.917	-0.135	1.095
213G	0.939	0.980	1.468	-0.578	1.276	0.547	1.621	1.621	-0.578	0.893
214Q	1.217	0.980	1.375	-0.557	1.157	0.548	1.561	1.561	-0.557	0.897
215T	0.319	0.165	1.094	-0.639	0.884	0.076	1.514	1.514	-0.639	0.488
216V	1.261	-0.651	1.169	-0.558	0.829	0.071	1.080	1.261	-0.651	0.457
217S	0.395	-0.759	1.038	-0.964	0.856	0.073	1.401	1.401	-0.964	0.292

218M	-0.490	-1.819	0.571	-1.589	0.465	0.032	1.560	1.560	-1.819	-0.182
219G	-1.400	-1.077	0.290	-2.353	0.319	0.018	1.954	1.954	-2.353	-0.321
220I	-1.748	-1.909	0.328	-2.808	0.337	0.022	1.800	1.800	-2.808	-0.568
221I	-1.799	-1.789	0.169	-3.063	0.136	0.001	1.640	1.640	-3.063	-0.672
222L	-2.115	-1.967	0.094	-2.863	0.100	-0.010	2.131	2.131	-2.863	-0.661
223L	-3.057	-2.169	0.019	-2.648	0.155	-0.005	2.565	2.565	-3.057	-0.734
224G	-3.183	-1.965	0.178	-2.467	0.191	0.019	2.266	2.266	-3.183	-0.709
225L	-2.798	-1.965	0.571	-2.342	0.446	0.036	2.276	2.276	-2.798	-0.539
226L	-2.083	-1.965	0.655	-2.292	0.437	0.031	0.831	0.831	-2.292	-0.627
227W	-1.141	-1.402	0.730	-2.126	0.382	0.025	0.397	0.730	-2.126	-0.448
228Y	-2.083	-1.103	0.655	-2.022	0.437	0.031	0.831	0.831	-2.083	-0.465
229A	-1.369	0.117	0.982	-1.772	0.701	0.044	0.616	0.982	-1.772	-0.097
230G	-1.369	0.021	0.982	-1.657	0.701	0.044	0.616	0.982	-1.657	-0.094
231L	-0.471	-0.781	1.393	-1.535	1.157	0.644	0.593	1.393	-1.535	0.143
232P	-0.585	-0.781	1.019	-1.623	0.911	0.626	0.850	1.019	-1.623	0.060
233L	-1.299	-0.284	0.954	-1.693	0.866	0.630	2.111	2.111	-1.693	0.183
234R	-2.241	0.776	0.879	-1.875	0.920	0.635	2.546	2.546	-2.241	0.234
235V	-1.249	-0.242	1.113	-1.570	1.066	0.650	2.271	2.271	-1.570	0.291
236F	-0.970	-0.146	1.019	-1.030	0.948	0.651	2.210	2.210	-1.030	0.383
237L	-0.970	0.029	1.019	-0.318	0.948	0.651	2.210	2.210	-0.970	0.510
238S	-1.103	0.137	0.589	0.104	0.474	0.027	1.201	1.201	-1.103	0.204
239S	-0.736	-0.815	0.711	-0.038	0.483	0.025	-0.398	0.711	-0.815	-0.110
240L	-0.389	-1.767	0.655	-0.731	0.519	0.022	-0.060	0.655	-1.767	-0.250
241A	-0.041	-0.707	0.618	-1.441	0.501	0.019	0.094	0.618	-1.441	-0.137
242A	-0.686	-0.707	0.346	-1.997	0.337	0.000	0.523	0.523	-1.997	-0.312
243V	-0.686	-0.707	0.346	-1.979	0.337	0.000	0.523	0.523	-1.979	-0.309
244V	0.029	-0.935	0.431	-1.640	0.328	-0.005	-0.923	0.431	-1.640	-0.388
245V	0.029	-1.043	0.431	-1.210	0.328	-0.005	-0.923	0.431	-1.210	-0.342
246S	-0.610	-0.947	0.290	-1.128	0.310	-0.004	0.409	0.409	-1.128	-0.240
247A	-0.958	-1.899	0.328	-1.408	0.328	0.000	0.256	0.328	-1.899	-0.479
248A	-0.591	-1.043	0.449	-2.001	0.337	-0.001	-1.343	0.449	-2.001	-0.599
249I	-0.591	-1.043	0.449	-2.415	0.337	-0.001	-1.343	0.449	-2.415	-0.658
250L	-0.591	-0.092	0.449	-2.381	0.337	-0.001	-1.343	0.449	-2.381	-0.517
251A	-0.591	-0.294	0.449	-1.908	0.337	-0.001	-1.343	0.449	-1.908	-0.479
252V	-0.363	0.519	0.440	-1.304	0.291	-0.001	-0.333	0.519	-1.304	-0.107
253S	0.022	1.471	0.832	-0.920	0.547	0.016	-0.323	1.471	-0.920	0.235
254A	0.869	1.155	1.346	-0.966	1.011	0.635	-0.758	1.346	-0.966	0.470
255G	1.148	1.968	1.496	-1.053	1.166	0.656	0.412	1.968	-1.053	0.827
256Y	2.014	1.245	1.889	-0.795	1.494	1.143	-0.186	2.014	-0.795	0.972
257R	1.868	2.465	2.169	-0.428	1.813	1.748	-0.347	2.465	-0.428	1.327
258S	1.502	2.507	2.047	0.049	1.804	1.749	1.252	2.507	0.049	1.559
259D	1.407	1.149	2.487	-0.083	2.324	2.374	1.251	2.487	-0.083	1.558
260R	1.938	0.405	2.384	-0.520	2.242	2.374	1.079	2.384	-0.520	1.415
261V	1.040	0.201	1.973	-1.029	1.786	1.775	1.102	1.973	-1.029	0.978
262R	0.048	0.656	1.739	-1.240	1.640	1.760	1.377	1.760	-1.240	0.854
263S	-0.142	0.417	1.767	-0.894	1.631	1.312	1.273	1.767	-0.894	0.766
264W	-0.275	0.171	1.580	-0.247	1.431	0.706	1.494	1.580	-0.275	0.694
265L	0.452	1.213	2.029	0.335	1.804	1.304	0.879	2.029	0.335	1.145
266N	0.629	1.776	1.898	1.131	1.640	0.720	0.766	1.898	0.629	1.223
267P	0.850	1.658	2.019	1.603	1.804	1.189	0.598	2.019	0.598	1.389
268E	1.616	1.838	2.244	2.082	2.060	1.183	0.795	2.244	0.795	1.688
269N	2.577	2.118	2.655	2.362	2.424	1.220	0.524	2.655	0.524	1.983
270D	2.766	2.136	2.627	2.325	2.433	1.668	0.628	2.766	0.628	2.083
271P	3.044	1.191	2.533	2.145	2.315	1.669	0.568	3.044	0.568	1.924
272Q	2.912	1.323	2.197	1.905	1.905	1.070	0.594	2.912	0.594	1.701
273D	2.349	0.832	2.150	1.423	1.832	1.048	1.039	2.349	0.832	1.525
274S	2.096	1.107	2.206	0.939	1.886	0.602	1.212	2.206	0.602	1.435
275G	2.096	0.742	1.963	0.235	1.613	0.583	-0.018	2.096	-0.018	1.031
276Y	1.982	0.115	2.066	-0.510	1.713	1.165	-0.183	2.066	-0.510	0.907
277Q	1.729	1.353	2.122	-1.092	1.768	0.719	-0.010	2.122	-1.092	0.941
278A	1.451	0.688	1.973	-1.497	1.613	0.699	-1.180	1.973	-1.497	0.535
279R	1.451	0.688	2.431	-1.662	2.296	1.293	-1.116	2.431	-1.662	0.769

280Q	0.990	-0.330	2.113	-1.684	2.014	1.278	-1.197	2.113	-1.684	0.455
281A	0.743	-0.821	1.786	-1.701	1.640	1.236	-2.370	1.786	-2.370	0.073
282K	0.029	-0.330	1.702	-1.681	1.649	1.241	-0.925	1.702	-1.681	0.241
283F	-0.104	-0.534	1.272	-1.712	1.175	0.617	-1.934	1.272	-1.934	-0.174
284A	-0.104	0.267	1.272	-1.775	1.175	0.617	-1.934	1.272	-1.934	-0.069
285L	0.123	-0.058	1.262	-1.780	1.130	0.617	-0.924	1.262	-1.780	0.053
286A	0.123	-0.028	0.804	-1.629	0.446	0.022	-0.988	0.804	-1.629	-0.178
287Q	0.199	0.600	0.730	-1.645	0.474	0.019	-0.918	0.730	-1.645	-0.077
288G	-0.515	0.648	0.664	-1.600	0.428	0.024	0.343	0.664	-1.600	-0.001
289G	0.427	0.648	0.739	-1.723	0.373	0.018	-0.091	0.739	-1.723	0.056
290I	0.926	-0.184	1.010	-1.445	0.692	0.507	0.910	1.010	-1.445	0.345
291F	0.907	0.768	0.674	-1.072	0.273	0.465	0.747	0.907	-1.072	0.394
292G	-0.035	1.433	0.599	-0.553	0.328	0.470	1.182	1.433	-0.553	0.489
293D	-0.035	1.433	0.599	-0.456	0.328	0.470	1.182	1.433	-0.456	0.503
294G	0.850	0.798	1.066	-0.617	0.720	0.511	1.023	1.066	-0.617	0.622
295L	1.793	0.171	1.122	-1.080	0.720	0.507	0.772	1.793	-1.080	0.572
296G	1.198	1.207	1.010	-1.277	0.756	0.508	1.361	1.361	-1.277	0.680
297Q	0.699	0.077	0.739	-1.482	0.437	0.019	0.360	0.739	-1.482	0.121
298G	0.699	0.195	1.197	-1.618	1.121	0.614	0.424	1.197	-1.618	0.376
299V	0.648	-0.839	1.300	-1.891	1.130	0.634	0.012	1.300	-1.891	0.142
300A	0.730	-0.947	1.608	-1.710	1.485	0.674	-0.102	1.608	-1.710	0.248
301K	0.231	-0.589	1.533	-1.279	1.349	0.651	0.067	1.533	-1.279	0.281
302W	-0.711	-0.811	1.459	-0.495	1.403	0.657	0.502	1.459	-0.811	0.286
303N	-0.344	-0.308	1.823	0.105	1.686	0.674	0.133	1.823	-0.344	0.538
304Y	-0.035	-0.827	2.122	0.576	1.996	0.715	1.030	2.122	-0.827	0.797
305L	-0.262	0.189	1.674	0.677	1.358	0.120	-0.045	1.674	-0.262	0.530
306P	0.503	0.932	1.814	1.325	1.513	0.715	0.200	1.814	0.200	1.000
307N	0.503	0.399	1.814	1.967	1.513	0.715	0.200	1.967	0.200	1.016
308A	1.255	-0.534	1.832	2.902	1.595	1.184	-0.141	2.902	-0.534	1.156
309H	1.255	-0.709	1.851	3.450	1.540	1.183	-0.325	3.450	-0.709	1.178
310N	0.617	-0.799	1.468	3.280	1.248	1.166	-0.223	3.280	-0.799	0.965
311D	-0.408	-1.733	1.103	2.249	0.893	1.129	0.141	2.249	-1.733	0.482
312F	-0.408	-2.596	1.103	0.887	0.893	1.129	0.141	1.129	-2.596	0.164
313I	-1.046	-1.795	0.804	-0.605	0.701	0.511	0.195	0.804	-1.795	-0.176
314F	-1.995	-0.895	0.365	-1.707	0.373	0.473	0.630	0.630	-1.995	-0.394
315A	-2.266	-0.146	0.085	-2.307	0.009	-0.016	0.639	0.639	-2.307	-0.572
316I	-1.192	-0.350	0.477	-2.692	0.419	0.579	0.362	0.579	-2.692	-0.342
317I	-0.193	0.602	0.945	-2.730	0.802	1.177	0.014	1.177	-2.730	0.088
318G	-0.193	0.722	0.926	-2.702	0.856	1.178	0.198	1.178	-2.702	0.141
319E	0.035	-0.001	0.917	-2.500	0.811	1.178	1.208	1.208	-2.500	0.235
320E	-0.041	0.051	0.973	-2.381	0.838	1.182	1.321	1.321	-2.381	0.278
321L	0.231	-0.524	0.991	-2.296	0.847	1.181	1.588	1.588	-2.296	0.288
322G	0.231	-0.524	0.991	-2.266	0.847	1.181	1.588	1.588	-2.266	0.293
323L	-0.129	-0.524	0.664	-2.194	0.483	0.582	0.605	0.664	-2.194	-0.074
324V	-1.204	-0.524	0.253	-2.161	0.127	-0.012	1.066	1.066	-2.161	-0.351
325G	-0.262	-0.633	0.328	-2.110	0.073	-0.018	0.631	0.631	-2.110	-0.284
326A	-1.204	-0.633	0.253	-2.153	0.127	-0.012	1.066	1.066	-2.153	-0.365
327L	-1.204	-0.837	0.253	-2.195	0.127	-0.012	1.066	1.066	-2.195	-0.400
328G	-0.610	-0.807	0.365	-2.236	0.091	-0.014	0.477	0.477	-2.236	-0.391
329L	-1.552	-0.807	0.290	-2.290	0.146	-0.009	0.912	0.912	-2.290	-0.473
330L	-2.266	-0.807	0.225	-2.169	0.100	-0.004	2.173	2.173	-2.266	-0.393
331G	-1.324	-0.777	0.300	-1.969	0.045	-0.010	1.739	1.739	-1.969	-0.285
332L	-2.266	-1.404	0.225	-1.756	0.100	-0.004	2.173	2.173	-2.266	-0.419
333F	-2.266	-1.606	0.244	-1.519	0.045	-0.006	1.990	1.990	-2.266	-0.446
334G	-1.552	-0.941	0.328	-1.439	0.036	-0.011	0.545	0.545	-1.552	-0.434
335L	-2.033	-0.941	0.589	-1.410	0.319	0.008	0.876	0.876	-2.033	-0.370
336F	-1.122	-0.851	0.870	-1.282	0.465	0.023	0.482	0.870	-1.282	-0.202
337A	-0.180	0.137	0.926	-1.181	0.465	0.019	0.231	0.926	-1.181	0.059
338Y	-0.806	-0.188	0.926	-1.172	0.556	0.036	0.176	0.926	-1.172	-0.067
339T	0.041	0.219	1.440	-1.345	1.020	0.655	-0.260	1.440	-1.345	0.253
340G	0.117	0.584	1.365	-1.906	1.048	0.653	-0.190	1.365	-1.906	0.239
341M	0.117	0.770	1.365	-2.442	1.048	0.653	-0.190	1.365	-2.442	0.189

342R	0.648	1.740	1.262	-2.569	0.966	0.654	-0.362	1.740	-2.569	0.334
343I	0.585	0.926	1.496	-2.357	1.285	1.258	-0.403	1.496	-2.357	0.399
344A	0.636	1.790	1.655	-1.525	1.485	1.278	-0.244	1.790	-1.525	0.725
345S	1.034	2.148	1.664	-0.835	1.440	1.261	-1.199	2.148	-1.199	0.788
346R	1.401	1.119	1.505	-0.140	1.285	1.125	-1.207	1.505	-1.207	0.727
347S	2.039	0.101	1.889	0.254	1.576	1.143	-1.309	2.039	-1.309	0.813
348A	1.325	0.059	1.823	0.668	1.531	1.147	-0.047	1.823	-0.047	0.929
349D	0.332	-0.146	1.589	0.618	1.385	1.132	0.228	1.589	-0.146	0.734
350P	0.332	-0.889	1.589	0.387	1.385	1.132	0.228	1.589	-0.889	0.595
351F	-0.661	-0.757	1.356	-0.518	1.239	1.117	0.503	1.356	-0.757	0.326
352L	-1.375	-0.583	1.272	-1.384	1.248	1.123	1.948	1.948	-1.384	0.321
353R	-1.678	0.113	1.197	-2.047	1.084	0.654	1.998	1.998	-2.047	0.189
354L	-1.678	-0.210	0.954	-2.202	0.811	0.635	0.768	0.954	-2.202	-0.132
355L	-0.768	0.485	1.216	-1.878	1.011	0.651	0.557	1.216	-1.878	0.182
356T	0.142	0.485	1.496	-1.371	1.157	0.665	0.163	1.496	-1.371	0.391
357A	0.206	-0.508	1.262	-0.830	0.838	0.060	0.205	1.262	-0.830	0.176
358T	0.206	-0.605	1.262	-0.560	0.838	0.060	0.205	1.262	-0.605	0.201
359T	0.155	-1.300	1.365	-0.533	0.847	0.080	-0.208	1.365	-1.300	0.058
360T	-0.408	-1.164	1.047	-0.949	0.683	0.062	0.340	1.047	-1.164	-0.055
361L	-1.122	-1.164	0.963	-1.480	0.692	0.067	1.785	1.785	-1.480	-0.037
362W	-1.090	-0.959	0.758	-1.987	0.492	0.047	1.745	1.745	-1.987	-0.142
363V	-1.040	-0.631	0.889	-2.118	0.711	0.070	1.867	1.867	-2.118	-0.036
364L	-1.236	-0.859	0.692	-2.015	0.556	0.050	0.816	0.816	-2.015	-0.285
365G	-1.236	-0.046	0.711	-1.621	0.501	0.049	0.632	0.711	-1.621	-0.144
366Q	-1.109	-0.997	0.552	-1.449	0.465	0.025	0.932	0.932	-1.449	-0.226
367A	-0.433	-0.861	0.973	-0.975	0.784	0.064	0.230	0.973	-0.975	-0.031
368F	-0.357	-1.268	0.917	-0.763	0.756	0.061	0.117	0.917	-1.268	-0.077
369I	-0.357	-1.190	0.917	-0.381	0.756	0.061	0.117	0.917	-1.190	-0.011
370N	-0.857	-1.190	0.842	-0.395	0.619	0.038	0.286	0.842	-1.190	-0.094
371I	-1.223	-1.172	0.720	-0.611	0.610	0.039	1.884	1.884	-1.223	0.035
372G	-1.147	-1.051	0.646	-1.299	0.638	0.037	1.955	1.955	-1.299	-0.032
373Y	-0.281	-1.883	0.776	-1.694	0.610	0.035	1.634	1.634	-1.883	-0.115
374V	-1.305	-1.117	0.393	-2.280	0.310	-0.000	2.182	2.182	-2.280	-0.260
375I	-1.381	-1.117	0.449	-2.387	0.337	0.003	2.295	2.295	-2.387	-0.257
376G	-1.609	-0.302	0.702	-2.310	0.656	0.022	2.514	2.514	-2.310	-0.047
377L	-1.723	-0.302	0.328	-2.089	0.410	0.005	2.771	2.771	-2.089	-0.086
378L	-1.160	-0.302	0.646	-1.612	0.574	0.023	2.223	2.223	-1.612	0.056
379P	-0.294	0.393	0.776	-1.210	0.547	0.021	1.902	1.902	-1.210	0.305
380V	-1.236	-0.170	0.702	-1.054	0.601	0.027	2.336	2.336	-1.236	0.172
381T	-0.275	0.285	1.113	-1.070	0.966	0.064	2.065	2.065	-1.070	0.450
382G	-0.275	-0.410	1.113	-1.245	0.966	0.064	2.065	2.065	-1.245	0.325
383L	-0.275	-1.362	1.113	-1.338	0.966	0.064	2.065	2.065	-1.362	0.176
384Q	-0.623	-0.302	1.150	-1.313	0.984	0.067	1.911	1.911	-1.313	0.268
385L	-1.457	-0.793	0.814	-1.361	0.811	0.049	2.192	2.192	-1.457	0.036
386P	-1.407	0.039	0.973	-1.303	1.011	0.069	2.351	2.351	-1.407	0.248
387L	-0.692	0.307	1.057	-1.320	1.002	0.064	0.906	1.057	-1.320	0.189
388I	-0.711	1.002	0.720	-1.270	0.583	0.022	0.743	1.002	-1.270	0.156
389S	0.231	2.182	0.795	-1.135	0.528	0.016	0.309	2.182	-1.135	0.418
390A	0.427	1.818	0.748	-1.077	0.410	0.017	0.130	1.818	-1.077	0.353
391G	1.420	1.818	0.982	-0.875	0.556	0.032	-0.146	1.818	-0.875	0.541
392G	2.254	1.191	1.318	-0.439	0.729	0.050	-0.427	2.254	-0.439	0.668
393T	1.976	1.054	1.169	-0.109	0.574	0.030	-1.597	1.976	-1.597	0.442
394S	1.976	0.359	1.169	0.096	0.574	0.030	-1.597	1.976	-1.597	0.372
395T	1.944	0.359	1.375	-0.132	0.774	0.050	-1.556	1.944	-1.556	0.402
396A	1.002	-0.336	1.300	-0.693	0.829	0.055	-1.121	1.300	-1.121	0.148
397A	1.084	-0.661	1.253	-0.910	0.829	0.055	-1.002	1.253	-1.002	0.093
398T	0.092	-0.034	1.019	-1.004	0.683	0.041	-0.727	1.019	-1.004	0.010
399L	-0.743	-0.849	0.683	-0.929	0.510	0.022	-0.446	0.683	-0.929	-0.250
400S	-0.515	-0.969	0.674	-1.086	0.465	0.022	0.564	0.674	-1.086	-0.121
401L	-1.154	-1.825	0.533	-1.577	0.446	0.024	1.896	1.896	-1.825	-0.236
402I	-1.988	-1.011	0.197	-2.291	0.273	0.006	2.177	2.177	-2.291	-0.377
403G	-1.274	-0.687	0.281	-2.722	0.264	0.001	0.732	0.732	-2.722	-0.486

404I	-1.242	-1.314	0.431	-2.558	0.419	0.021	0.459	0.459	-2.558	-0.541
405I	-0.528	-0.176	0.515	-1.907	0.410	0.016	-0.986	0.515	-1.907	-0.380
406A	0.111	0.239	0.655	-0.901	0.428	0.014	-2.318	0.655	-2.318	-0.253
407N	0.016	0.814	1.094	-0.439	0.948	0.639	-2.319	1.094	-2.319	0.107
408A	0.655	0.564	1.393	-0.158	1.139	1.257	-2.373	1.393	-2.373	0.354
409A	1.653	1.139	1.860	-0.406	1.522	1.855	-2.721	1.860	-2.721	0.700
410R	1.653	1.139	2.103	-0.170	1.795	1.874	-1.491	2.103	-1.491	0.986
411H	1.704	0.229	2.132	-0.190	1.850	2.432	-1.405	2.432	-1.405	0.965
412E	1.704	0.139	2.132	-0.111	1.850	2.432	-1.405	2.432	-1.405	0.963
413P	1.337	-0.436	2.010	-0.637	1.841	2.434	0.194	2.434	-0.637	0.963
414E	1.205	-0.999	1.580	-1.191	1.367	1.809	-0.815	1.809	-1.191	0.422
415A	1.205	-0.761	1.421	-1.872	1.194	1.190	-2.092	1.421	-2.092	0.040
416V	0.130	-0.761	1.010	-2.076	0.838	0.595	-1.631	1.010	-2.076	-0.271
417A	0.263	-0.038	1.197	-2.309	1.039	1.201	-1.852	1.201	-2.309	-0.071
418A	-0.098	0.776	0.870	-2.382	0.674	0.601	-2.836	0.870	-2.836	-0.342
419L	0.130	1.315	0.860	-2.432	0.629	0.601	-1.825	1.315	-2.432	-0.103
420R	0.629	2.058	1.412	-2.445	1.112	1.225	-2.415	2.058	-2.445	0.225
421A	1.129	2.076	1.683	-2.076	1.431	1.714	-1.414	2.076	-2.076	0.649
422G	1.628	1.980	1.954	-1.357	1.750	2.202	-0.413	2.202	-1.357	1.106
423R	2.570	1.962	2.487	-0.505	2.379	2.792	-0.783	2.792	-0.783	1.557
424D	2.071	1.962	1.935	0.141	1.895	2.169	-0.193	2.169	-0.193	1.426
425D	2.381	1.219	2.234	0.588	2.205	2.209	0.704	2.381	0.588	1.649
426K	2.286	0.475	2.674	0.437	2.725	2.834	0.703	2.834	0.437	1.733
427V	1.438	0.457	2.160	0.323	2.260	2.215	1.139	2.260	0.323	1.427
428N	0.225	0.349	1.804	-0.135	1.950	1.731	1.583	1.950	-0.135	1.072
429R	-0.142	0.099	1.963	-0.820	2.105	1.867	1.591	2.105	-0.820	0.952
430L	-1.084	-0.919	1.431	-1.646	1.476	1.278	1.961	1.961	-1.646	0.356
431L	-0.717	-0.356	1.795	-2.061	1.759	1.295	1.592	1.795	-2.061	0.472
432R	-1.742	0.423	1.412	-2.302	1.458	1.260	2.140	2.140	-2.302	0.378
433L	-1.874	-0.032	1.225	-1.742	1.257	0.654	2.361	2.361	-1.874	0.264
434P	-0.800	-0.234	1.636	-1.335	1.613	1.248	1.899	1.899	-1.335	0.575
435L	-0.085	-0.797	1.963	-0.892	1.877	1.262	1.684	1.963	-0.892	0.716
436P	-0.471	-0.234	1.786	-0.726	1.640	0.657	2.017	2.017	-0.726	0.667
437E	-0.471	-0.234	1.786	-0.653	1.640	0.657	2.017	2.017	-0.653	0.677
438P	-0.471	0.005	1.786	-0.722	1.640	0.657	2.017	2.017	-0.722	0.702
439Y	0.244	-0.558	2.113	-0.604	1.905	0.670	1.802	2.113	-0.604	0.796
440L	0.376	0.423	2.300	-0.648	2.105	1.276	1.582	2.300	-0.648	1.059
441P	-0.698	0.628	1.889	-0.618	1.750	0.682	2.043	2.043	-0.698	0.811
442P	-0.338	0.095	1.973	-0.946	1.841	1.262	1.797	1.973	-0.946	0.812
443R	-0.085	0.550	1.720	-1.457	1.604	1.243	0.454	1.720	-1.457	0.576
444L	-0.085	0.275	1.739	-1.823	1.549	1.242	0.271	1.739	-1.823	0.453
445E	0.048	1.293	1.926	-2.037	1.750	1.847	0.050	1.926	-2.037	0.697
446A	0.547	1.549	1.954	-1.667	1.795	2.317	-0.179	2.317	-1.667	0.902
447F	0.547	2.363	1.954	-1.243	1.795	2.317	-0.179	2.363	-1.243	1.079
448R	1.489	2.537	2.487	-0.897	2.424	2.907	-0.549	2.907	-0.897	1.485
449D	1.261	2.333	2.589	-1.019	2.533	2.932	-0.524	2.932	-1.019	1.444
450R	1.261	2.152	2.589	-1.408	2.533	2.932	-0.524	2.932	-1.408	1.362
451K	2.286	1.830	2.954	-1.555	2.889	2.968	-0.888	2.968	-1.555	1.498
452R	2.153	1.357	2.767	-1.069	2.688	2.362	-0.667	2.767	-1.069	1.370
453A	1.900	0.544	2.823	-0.162	2.743	1.916	-0.495	2.823	-0.495	1.324
454N	1.767	1.034	2.636	0.872	2.543	1.310	-0.274	2.636	-0.274	1.413
455P	1.540	0.916	2.188	1.175	1.905	0.715	-1.349	2.188	-1.349	1.013
456Q	1.653	1.048	2.085	0.824	1.804	0.133	-1.185	2.085	-1.185	0.909
457P	1.849	0.916	2.281	0.280	1.959	0.153	-0.134	2.281	-0.134	1.044
458A	1.786	0.558	2.309	-0.240	2.023	0.155	0.142	2.309	-0.240	0.962
459Q	1.786	1.371	2.309	-0.246	2.023	0.155	0.142	2.309	-0.246	1.077
460T	1.540	1.712	1.982	-0.166	1.649	0.113	-1.031	1.982	-1.031	0.828
461Q	1.672	1.712	2.169	-0.295	1.850	0.718	-1.252	2.169	-1.252	0.939
462P	1.900	1.579	2.617	-0.688	2.488	1.313	-0.177	2.617	-0.688	1.290
463A	1.849	2.034	2.487	-1.223	2.269	1.290	-0.299	2.487	-1.223	1.201
464R	1.653	2.525	2.533	-1.517	2.388	1.289	-0.120	2.533	-1.517	1.250
465K	1.540	1.712	2.636	-1.454	2.488	1.872	-0.284	2.636	-1.454	1.216

466T	1.736	1.239	2.589	-1.098	2.369	1.873	-0.464	2.589	-1.098	1.178
467P	1.736	1.375	2.589	-0.877	2.369	1.873	-0.464	2.589	-0.877	1.229
468R	1.603	1.507	2.403	-0.749	2.169	1.267	-0.243	2.403	-0.749	1.137
469T	1.603	1.052	1.945	-0.811	1.485	0.672	-0.307	1.945	-0.811	0.806
470A	1.653	0.562	2.075	-0.732	1.704	0.695	-0.185	2.075	-0.732	0.825
471P	1.653	1.375	2.075	-0.601	1.704	0.695	-0.185	2.075	-0.601	0.960
472G	1.521	1.507	1.646	-0.410	1.230	0.070	-1.194	1.646	-1.194	0.624
473Q	1.457	0.766	1.879	-0.537	1.549	0.675	-1.236	1.879	-1.236	0.651
474P	1.704	0.902	2.206	-0.701	1.923	0.717	-0.062	2.206	-0.701	0.956
475A	1.306	0.339	1.954	-1.223	1.695	0.715	-0.338	1.954	-1.223	0.636
476R	1.306	0.698	1.954	-1.590	1.695	0.715	-0.338	1.954	-1.590	0.634
477Q	0.345	0.243	1.543	-1.948	1.330	0.678	-0.066	1.543	-1.948	0.304
478M	0.345	0.566	1.543	-1.978	1.330	0.678	-0.066	1.543	-1.978	0.345
479G	0.345	1.038	1.786	-1.686	1.604	0.697	1.164	1.786	-1.686	0.707
480L	0.345	1.038	1.786	-1.221	1.604	0.697	1.164	1.786	-1.221	0.773
481P	0.098	2.098	1.702	-0.747	1.504	0.674	1.221	2.098	-0.747	0.936
482P	0.724	2.098	1.702	-0.482	1.412	0.657	1.276	2.098	-0.482	1.055
483R	0.775	2.553	1.860	-0.313	1.613	0.677	1.436	2.553	-0.313	1.229
484P	1.489	2.231	2.188	-0.107	1.877	0.691	1.221	2.231	-0.107	1.370
485G	1.622	1.872	2.374	0.077	2.078	1.296	1.000	2.374	0.077	1.474
486S	1.818	1.784	2.328	0.171	1.959	1.297	0.821	2.328	0.171	1.454
487P	1.685	1.287	1.898	-0.011	1.485	0.672	-0.188	1.898	-0.188	0.975
488R	2.185	1.287	1.926	-0.269	1.531	1.142	-0.417	2.185	-0.417	1.055
489T	1.957	0.377	2.178	-0.255	1.850	1.161	-0.198	2.178	-0.255	1.010
490A	1.679	0.700	2.272	0.134	1.968	1.160	-0.138	2.272	-0.138	1.111
491D	1.312	1.513	1.907	0.474	1.686	1.143	0.231	1.907	0.231	1.181
492P	1.312	1.830	1.907	0.521	1.686	1.143	0.231	1.907	0.231	1.233
493P	1.249	1.375	2.141	-0.200	2.005	1.748	0.190	2.141	-0.200	1.215
494V	1.527	1.107	2.290	-0.816	2.160	1.768	1.360	2.290	-0.816	1.342
495R	0.661	1.293	1.898	-1.398	1.832	1.280	1.957	1.957	-1.398	1.075
496R	0.661	1.107	1.814	-0.948	1.731	1.881	2.005	2.005	-0.948	1.179
497S	0.661	0.293	1.730	0.043	1.631	2.482	2.052	2.482	0.043	1.270
498V	1.255	0.065	1.842	1.205	1.595	2.481	1.464	2.481	0.065	1.415
499H	1.122	0.652	1.412	1.832	1.121	1.856	0.454	1.856	0.454	1.207
500H	1.217	1.375	0.973	1.643	0.601	1.231	0.456	1.643	0.456	1.071
501G	1.186	0.878	1.150	0.634	0.820	1.254	0.459	1.254	0.459	0.912
502A	1.685	0.251	1.702	-0.406	1.303	1.877	-0.131	1.877	-0.406	0.897
503G	1.432	0.878	1.795	-1.162	1.367	1.276	-0.066	1.795	-1.162	0.789
504Q	1.432	0.742	1.636	-1.560	1.194	0.656	-1.343	1.636	-1.560	0.394
505R	1.432	1.064	1.636	-1.602	1.194	0.656	-1.343	1.636	-1.602	0.434
506Y	1.679	1.064	1.963	-1.606	1.567	0.699	-0.170	1.963	-1.606	0.742
507A	1.584	1.962	2.403	-1.599	2.087	1.323	-0.171	2.403	-1.599	1.084
508G	1.470	2.776	2.505	-1.657	2.187	1.906	-0.335	2.776	-1.657	1.264
509Q	1.533	2.962	2.272	-1.630	1.868	1.301	-0.294	2.962	-1.630	1.145
510R	1.919	2.375	2.449	-1.790	2.105	1.906	-0.627	2.449	-1.790	1.191
511R	2.052	2.375	2.879	-1.891	2.579	2.531	0.383	2.879	-1.891	1.558
512T	1.457	1.561	2.767	-2.007	2.615	2.532	0.971	2.767	-2.007	1.414
513R	1.344	0.866	2.870	-2.222	2.716	3.115	0.807	3.115	-2.222	1.356
514R	1.211	0.628	2.440	-2.397	2.242	2.490	-0.202	2.490	-2.397	0.916
515V	0.364	0.441	1.926	-2.515	1.777	1.871	0.234	1.926	-2.515	0.585
516R	0.528	1.028	2.057	-2.596	1.987	2.450	0.166	2.450	-2.596	0.803
517A	0.623	1.028	1.617	-2.497	1.467	1.826	0.168	1.826	-2.497	0.605
518L	0.737	0.622	1.515	-2.269	1.367	1.243	0.332	1.515	-2.269	0.507
519E	1.236	1.453	2.066	-2.065	1.850	1.867	-0.258	2.066	-2.065	0.878
520G	0.850	1.133	1.889	-1.760	1.613	1.261	0.075	1.889	-1.760	0.723
521Q	1.078	0.760	1.879	-1.619	1.567	1.261	1.086	1.879	-1.619	0.859
522R	1.660	0.523	1.505	-1.481	1.877	1.316	-0.360	1.877	-1.481	0.720
523Y	1.167	-0.036	0.720	-1.352	1.832	0.776	-1.343	1.832	-1.352	0.252
524G	0.806	0.626	0.272	-1.091	2.196	0.836	-2.354	2.196	-2.354	0.185

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]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Hydrophilicity	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Flexibility	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Accessibility	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]

Turns	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Exposed Surface	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Polarity	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]
Antigenic Propensity	[1]VLTRLLRRGTSDTDGSQTRGAEPVEGQRTGPEEASNPGSARPRTRFGAWLGRPMTSFHLIIAVA ALLTTLGLIMVLSASAVRSYDDDGSAWVIFGKQVLWTLVGLIGGYVCLRMSVRFMRRIAFSGFAITI VMLVLVLVPGIGKEANGSRGWFVVAGFSMQPSELAKMAFAIWGAHLLAARRMERASLREMLIPLV PAAVVALALIVAQPDLGQTVSMGIILLGLLWYAGLPLRVFLSSLAAVVVSAAILAVSAGYRSDRVRSW LNPENDPQDSGYQARQAKFALAQGGIFGDGLGQGVAKWNYLPNAHNDFIFAIIGEELGLVGALGL LGLFGLFAYTGMRIASRSADPFLRLLTATTTLWVLGQAFINIGYVIGLLPVTGLQLPLISAGGTSTAAT LSLIGIIANAARHEPEAVAALRAGRDDKVNRLLRLPLPEPYLPPRLEAFRDRKRANPQPAQTQPAR KTPRTAPGQPARQMGLPPRPGSPRTADPPVRRSVHHGAGQRYAGQRRTRRVRALEGQRYG[524]

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