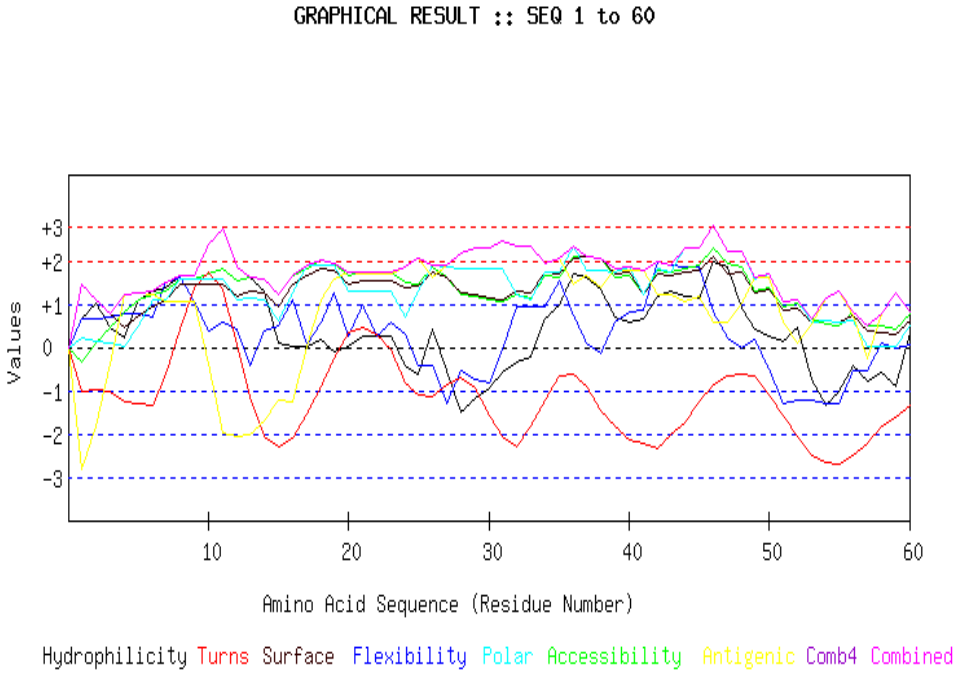
BcePred Prediction Server

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

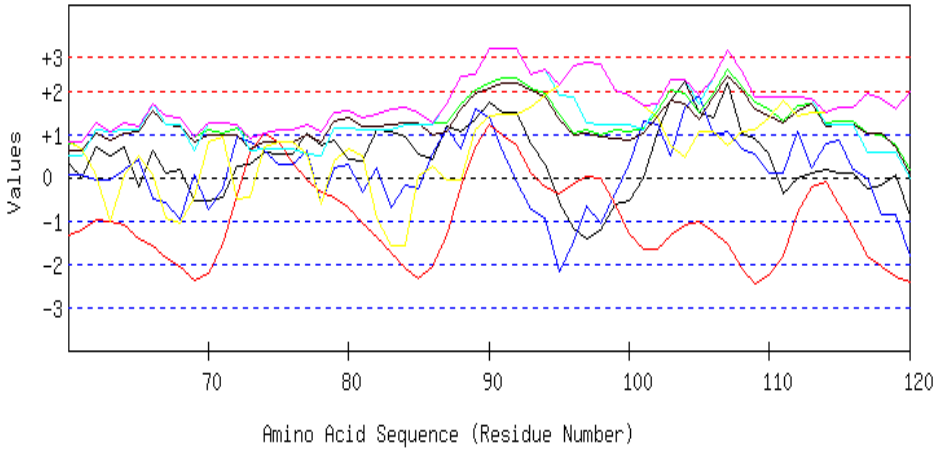
seqname=
Seq=MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEATLRAIV
HSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDDVSAHPASIGFPPY
HPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVANARLYQQAKARQSWIEATRDIA
TELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELLVIETVGSAVASIVGRTIPVAGAVLREVFVN
GIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVVVLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQ
RRMRELDVLTDRDRIARDLHDHVIQRLFAIGLALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQ
GITRLRQRIDAAVAQFADSGLRTSVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEV
TDNGRGLPDEFTGSGLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ

Length=578

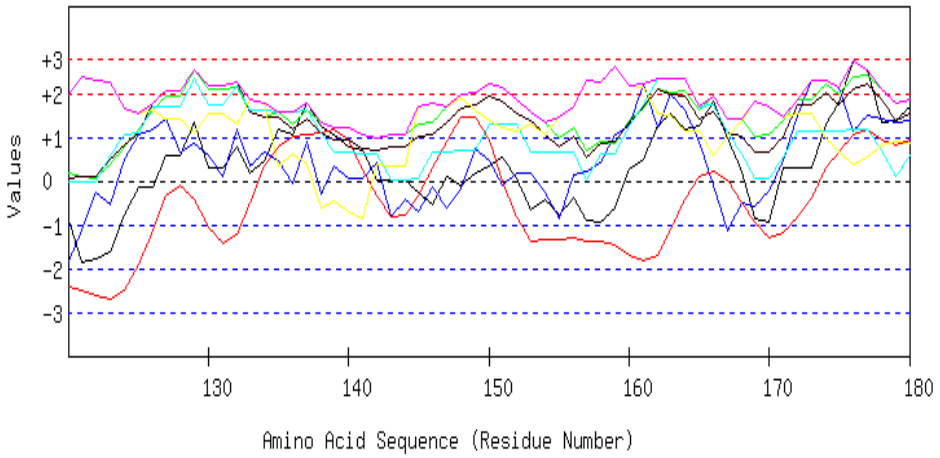
GRAPHICAL RESULT



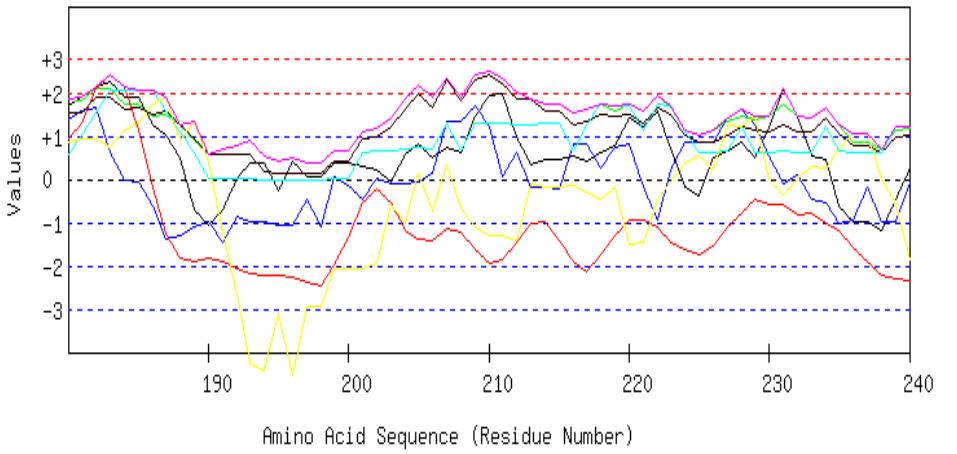
GRAPHICAL RESULT :: SEQ 61 to 120



GRAPHICAL RESULT :: SEQ 121 to 180

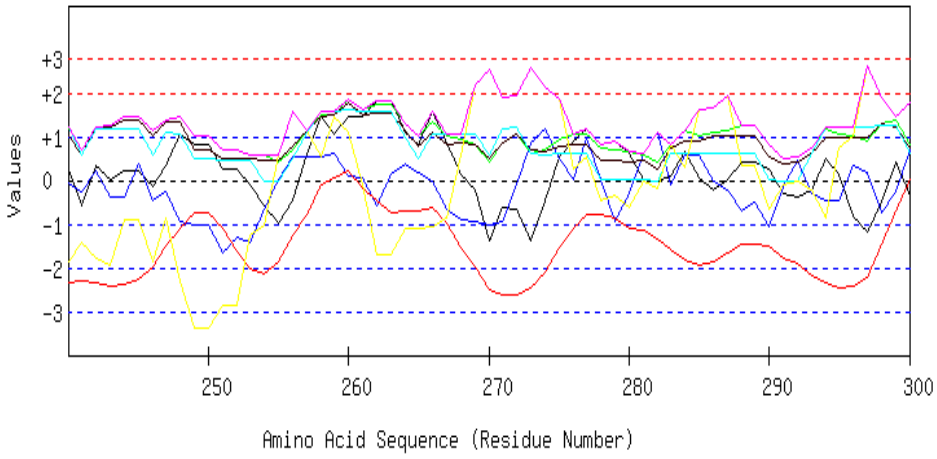


GRAPHICAL RESULT :: SEQ 181 to 240



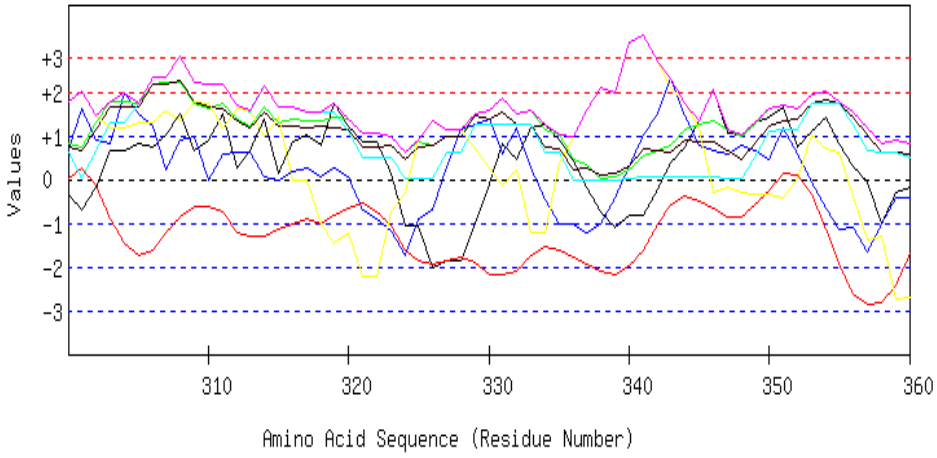
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



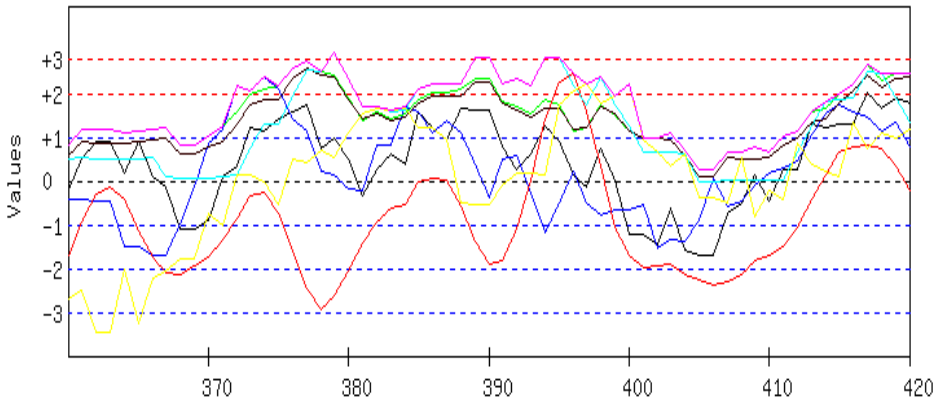
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



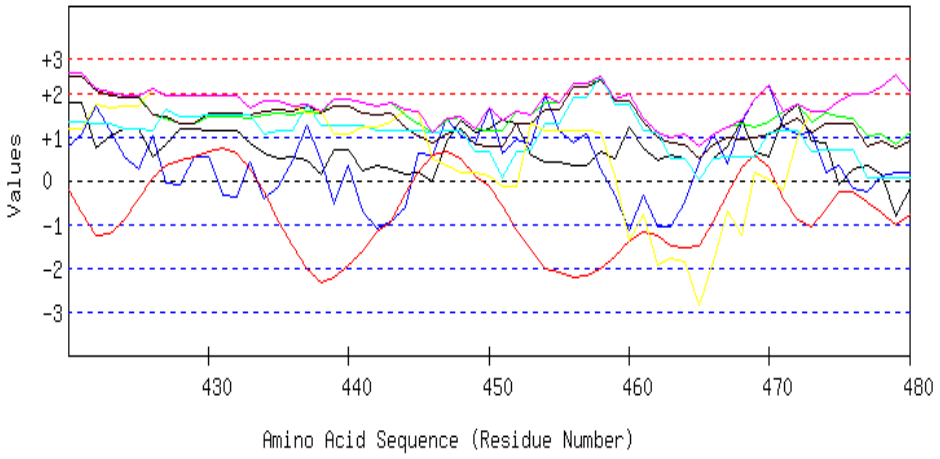
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



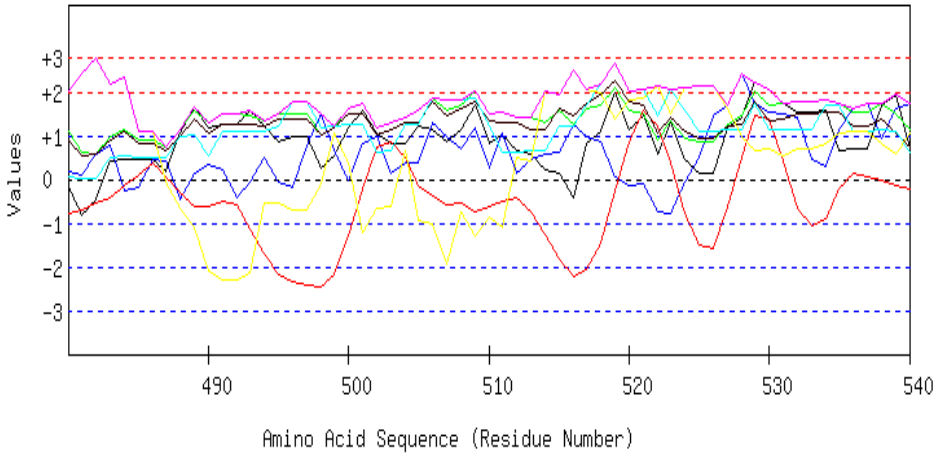
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480



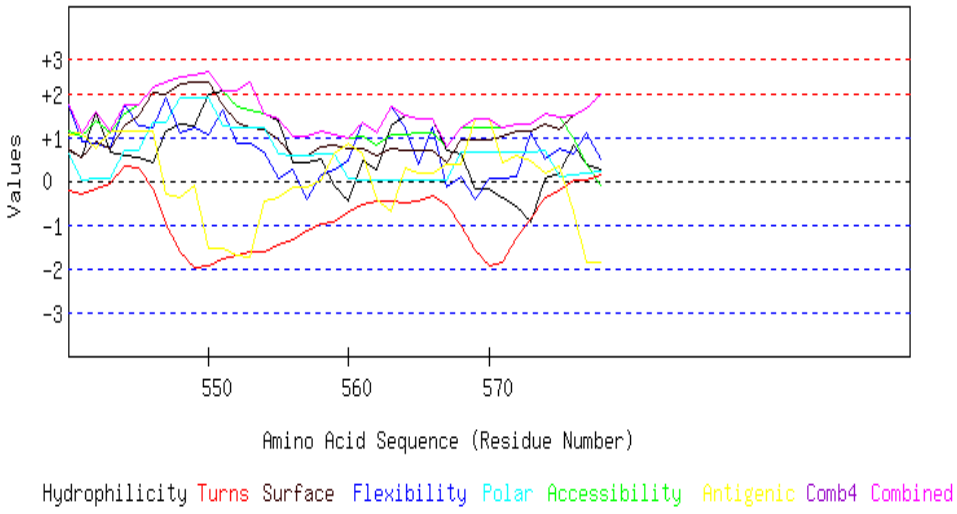
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



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

MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTA
GLDLEATLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGV
IGLLIEDPKPLRLDDVSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQP
FSDDDEVLVQALAAAAGIAVANARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVA
AEALKLTAADAALVAVPVDEDMPAADVGELLVIETVGSAVASIVGRTIPVAGAVLREVFV
NGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVVVLSQGGPGAFTDEQLEMMAA
FADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIGLALQGAVPHERNPE
VQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRTSVQFVG
PLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTG
SGLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ

Length=578

A.A.	Parameter							Combined		
	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 M	0.673	0.644	-0.354	-1.029	1.467	0.207	-2.822	1.467	-2.822	-0.173
2 T	1.034	0.662	0.094	-0.995	1.103	0.147	-1.812	1.103	-1.812	0.033
3 T	0.452	0.710	0.468	-1.018	0.793	0.092	-0.366	0.793	-1.018	0.162
4 G	0.218	0.794	0.804	-1.274	0.465	0.034	1.232	1.232	-1.274	0.325
5 G	1.116	0.776	1.085	-1.304	0.738	0.506	1.279	1.279	-1.304	0.599
6 L	1.280	0.688	1.216	-1.336	0.948	1.085	1.212	1.280	-1.336	0.727
7 V	1.394	1.519	1.318	-0.603	1.103	1.106	1.058	1.519	-0.603	0.985
8 D	1.666	1.615	1.599	0.401	1.467	1.595	1.049	1.666	0.401	1.342
9 E	1.666	1.076	1.599	1.366	1.467	1.595	1.049	1.666	1.049	1.402
10 N	2.381	0.387	1.683	1.725	1.458	1.589	-0.397	2.381	-0.397	1.261
11 D	2.747	0.592	1.804	1.337	1.467	1.588	-1.995	2.747	-1.995	1.077
12 G	1.849	0.411	1.524	0.049	1.194	1.116	-2.042	1.849	-2.042	0.586
13 A	1.622	-0.420	1.627	-1.151	1.303	1.141	-2.016	1.627	-2.016	0.301
14 A	1.312	0.393	1.571	-2.045	1.267	1.120	-1.683	1.571	-2.045	0.276
15 M	0.098	0.483	1.216	-2.318	0.957	0.636	-1.239	1.216	-2.318	-0.024
16 R	0.003	1.089	1.655	-2.113	1.476	1.261	-1.240	1.655	-2.113	0.304
17 P	0.003	0.071	1.814	-1.522	1.649	1.881	0.037	1.881	-1.522	0.562
18 L	0.199	0.568	2.010	-0.911	1.804	1.901	1.088	2.010	-0.911	0.951
19 R	-0.117	1.263	1.935	-0.271	1.768	1.889	1.578	1.935	-0.271	1.149
20 H	0.029	0.245	1.655	0.323	1.449	1.284	1.739	1.739	0.029	0.960
21 T	0.275	0.968	1.739	0.464	1.549	1.308	1.682	1.739	0.275	1.141
22 L	0.275	0.273	1.739	0.314	1.549	1.308	1.682	1.739	0.273	1.020
23 S	0.275	0.568	1.739	-0.074	1.549	1.308	1.682	1.739	-0.074	1.007
24 Q	-0.439	0.287	1.496	-0.820	1.385	0.693	1.850	1.850	-0.820	0.636
25 L	-0.635	-0.408	1.459	-1.113	1.403	1.293	2.076	2.076	-1.113	0.582
26 R	0.440	-0.408	1.870	-1.153	1.759	1.887	1.615	1.887	-1.153	0.858
27 L	-0.553	-1.318	1.636	-0.879	1.613	1.873	1.890	1.890	-1.318	0.609
28 H	-1.514	-0.538	1.225	-0.706	1.248	1.836	2.162	2.162	-1.514	0.530
29 E	-1.166	-0.725	1.188	-0.922	1.230	1.832	2.316	2.316	-1.166	0.536
30 L	-0.939	-0.809	1.085	-1.582	1.121	1.807	2.290	2.290	-1.582	0.425
31 L	-0.591	-0.066	1.047	-2.060	1.103	1.803	2.444	2.444	-2.060	0.526
32 V	-0.344	0.952	1.216	-2.319	1.303	1.225	2.340	2.340	-2.319	0.625
33 E	-0.205	0.952	1.160	-1.804	1.257	1.115	2.357	2.357	-1.804	0.690
34 V	0.642	0.952	1.674	-1.233	1.722	1.734	1.921	1.921	-1.233	1.059
35 Q	0.990	1.539	1.636	-0.678	1.704	1.730	2.075	2.075	-0.678	1.285
36 D	1.717	0.724	2.085	-0.625	2.078	2.328	1.460	2.328	-0.625	1.395
37 R	1.603	0.089	2.085	-0.905	2.087	1.771	1.650	2.087	-0.905	1.197
38 V	1.331	-0.150	2.066	-1.478	2.078	1.771	1.383	2.078	-1.478	1.000
39 E	0.718	0.574	1.617	-1.825	1.695	1.730	1.808	1.808	-1.825	0.902
40 Q	0.579	0.812	1.674	-2.158	1.741	1.841	1.791	1.841	-2.158	0.897
41 I	0.673	0.860	1.234	-2.201	1.221	1.216	1.792	1.792	-2.201	0.685
42 V	1.173	1.998	1.786	-2.338	1.704	1.839	1.202	1.998	-2.338	1.052
43 E	1.312	1.890	1.730	-2.019	1.658	1.729	1.220	1.890	-2.019	1.074
44 G	1.198	1.854	1.832	-1.738	1.759	2.311	1.056	2.311	-1.738	1.182
45 R	1.122	1.854	1.889	-1.256	1.786	2.315	1.169	2.315	-1.256	1.268
46 D	1.989	0.836	2.281	-0.873	2.114	2.802	0.571	2.802	-0.873	1.389
47 R	1.856	0.201	1.945	-0.680	1.704	2.202	0.598	2.202	-0.680	1.118
48 L	0.914	-0.038	1.870	-0.637	1.759	2.208	1.032	2.208	-0.637	1.015
49 D	0.414	0.167	1.318	-0.676	1.276	1.585	1.622	1.622	-0.676	0.815
50 G	0.275	-0.486	1.375	-1.111	1.321	1.695	1.605	1.695	-1.111	0.668
51 L	0.142	-1.318	0.945	-1.581	0.847	1.071	0.595	1.071	-1.581	0.100
52 V	0.459	-1.210	1.019	-2.064	0.884	1.082	0.105	1.082	-2.064	0.039

53 E	-0.755	-1.210	0.664	-2.497	0.574	0.599	0.549	0.664	-2.497	-0.297
54 A	-1.350	-1.294	0.552	-2.652	0.610	0.601	1.138	1.138	-2.652	-0.342
55 M	-1.002	-1.294	0.515	-2.698	0.592	0.597	1.291	1.291	-2.698	-0.286
56 L	-0.439	-0.552	0.832	-2.519	0.756	0.615	0.743	0.832	-2.519	-0.081
57 V	-0.800	-0.552	0.505	-2.203	0.392	0.015	-0.240	0.505	-2.203	-0.412
58 V	-0.572	0.083	0.496	-1.816	0.346	0.015	0.770	0.770	-1.816	-0.097
59 T	-0.888	-0.026	0.421	-1.602	0.310	0.004	1.260	1.260	-1.602	-0.074
60 A	0.326	0.059	0.776	-1.323	0.619	0.487	0.816	0.816	-1.323	0.252
61 G	-0.022	0.059	0.814	-1.211	0.638	0.491	0.662	0.814	-1.211	0.204
62 L	0.705	-0.078	1.262	-0.961	1.011	1.089	0.047	1.262	-0.961	0.440
63 D	0.509	-0.078	1.066	-1.005	0.856	1.069	-1.003	1.069	-1.005	0.202
64 L	0.705	0.197	1.262	-1.090	1.011	1.089	0.047	1.262	-1.090	0.460
65 E	-0.237	0.401	1.188	-1.436	1.066	1.094	0.482	1.188	-1.436	0.366
66 A	0.610	-0.498	1.702	-1.586	1.531	1.714	0.046	1.714	-1.586	0.503
67 T	0.111	-0.595	1.431	-1.849	1.212	1.225	-0.955	1.431	-1.849	0.083
68 L	0.187	-0.995	1.375	-2.060	1.185	1.221	-1.068	1.375	-2.060	-0.022
69 R	-0.540	0.065	0.926	-2.380	0.811	0.623	-0.453	0.926	-2.380	-0.136
70 A	-0.540	-0.749	1.085	-2.205	0.984	1.243	0.824	1.243	-2.205	0.092
71 I	-0.458	-0.258	1.038	-1.531	0.984	1.243	0.943	1.243	-1.531	0.280
72 V	0.256	0.922	1.122	-0.416	0.975	1.238	-0.502	1.238	-0.502	0.514
73 H	0.319	0.814	0.889	0.582	0.656	0.633	-0.460	0.889	-0.460	0.490
74 S	0.598	0.628	1.038	1.030	0.811	0.653	0.710	1.038	0.598	0.781
75 A	0.522	0.311	1.094	0.804	0.838	0.657	0.823	1.094	0.311	0.721
76 T	0.522	0.311	1.094	0.352	0.838	0.657	0.823	1.094	0.311	0.657
77 S	1.021	0.634	1.206	-0.045	0.984	0.526	0.547	1.206	-0.045	0.696
78 L	0.743	-0.629	1.057	-0.339	0.829	0.506	-0.623	1.057	-0.629	0.221
79 V	0.876	0.203	1.487	-0.467	1.303	1.130	0.386	1.487	-0.467	0.703
80 D	0.427	0.299	1.543	-0.681	1.385	1.130	0.677	1.543	-0.681	0.683
81 A	0.376	-0.354	1.384	-1.054	1.185	1.110	0.518	1.384	-1.054	0.452
82 R	1.091	0.221	1.468	-1.397	1.175	1.104	-0.927	1.468	-1.397	0.391
83 Y	1.059	-0.689	1.580	-1.729	1.230	1.120	-1.571	1.580	-1.729	0.143
84 G	0.920	-0.192	1.636	-2.099	1.276	1.231	-1.588	1.636	-2.099	0.169
85 A	0.553	-0.280	1.515	-2.323	1.267	1.232	0.010	1.515	-2.323	0.282
86 M	0.421	0.534	1.244	-2.067	0.966	1.227	0.279	1.244	-2.067	0.372
87 E	1.173	1.139	1.262	-1.328	1.048	1.697	-0.062	1.697	-1.328	0.704
88 V	1.078	0.654	1.702	-0.229	1.567	2.322	-0.064	2.322	-0.229	1.004
89 H	1.325	1.563	2.029	0.695	1.941	2.364	1.110	2.364	0.695	1.575
90 D	1.723	1.377	2.197	1.218	2.069	2.967	1.432	2.967	1.218	1.855
91 R	1.495	0.634	2.300	0.999	2.178	2.992	1.458	2.992	0.634	1.722
92 Q	1.495	-0.090	2.300	0.721	2.178	2.992	1.458	2.992	-0.090	1.579
93 H	0.781	-0.755	2.057	0.092	2.014	2.377	1.625	2.377	-0.755	1.170
94 R	0.281	-0.941	1.945	-0.237	1.868	2.508	1.902	2.508	-0.941	1.047
95 V	-0.566	-2.161	1.449	-0.392	1.349	1.888	2.154	2.154	-2.161	0.531
96 L	-1.179	-1.490	1.001	-0.140	0.966	1.847	2.579	2.579	-1.490	0.512
97 H	-1.432	-0.659	1.094	0.020	1.030	1.246	2.644	2.644	-1.432	0.563
98 F	-1.204	-1.073	0.991	-0.012	0.920	1.221	2.619	2.619	-1.204	0.495
99 V	-0.610	-0.360	1.103	-0.605	0.884	1.220	2.030	2.030	-0.610	0.523
100Y	-0.534	0.311	1.047	-1.310	0.856	1.216	1.917	1.917	-1.310	0.501
101E	-0.035	1.293	1.160	-1.669	1.002	1.085	1.640	1.640	-1.669	0.640
102G	1.040	1.209	1.552	-1.655	1.412	1.681	1.363	1.681	-1.655	0.943
103I	1.767	0.485	2.001	-1.323	1.786	2.279	0.748	2.279	-1.323	1.106
104D	2.216	1.623	1.945	-1.090	1.704	2.279	0.457	2.279	-1.090	1.305
105E	1.489	1.898	1.496	-1.027	1.330	1.681	1.072	1.898	-1.027	1.134
106E	1.394	0.998	1.935	-1.271	1.850	2.306	1.071	2.306	-1.271	1.183
107T	2.166	1.050	2.505	-1.534	2.342	2.929	0.748	2.929	-1.534	1.458
108V	1.028	0.650	2.094	-2.090	2.005	2.442	1.079	2.442	-2.090	1.029
109R	0.895	0.542	1.758	-2.441	1.595	1.842	1.105	1.842	-2.441	0.756
110R	0.534	0.087	1.589	-2.270	1.403	1.862	1.399	1.862	-2.270	0.658
111I	-0.376	0.105	1.309	-1.833	1.257	1.848	1.793	1.848	-1.833	0.586

112G	-0.009	1.056	1.674	-0.821	1.540	1.865	1.424	1.865	-0.821	0.961
113H	0.085	0.225	1.692	-0.209	1.704	1.835	1.490	1.835	-0.209	0.975
114L	0.180	0.762	1.253	-0.094	1.185	1.211	1.491	1.491	-0.094	0.855
115P	0.104	0.870	1.309	-0.625	1.212	1.214	1.605	1.605	-0.625	0.813
116K	0.104	0.187	1.309	-1.192	1.212	1.214	1.605	1.605	-1.192	0.634
117G	-0.262	-0.017	1.029	-1.833	1.030	0.596	1.926	1.926	-1.833	0.352
118L	-0.186	-0.849	0.973	-2.050	1.002	0.592	1.813	1.813	-2.050	0.185
119G	0.041	-0.849	0.720	-2.288	0.683	0.573	1.593	1.593	-2.288	0.068
120V	-0.901	-1.801	0.188	-2.406	0.054	-0.016	1.963	1.963	-2.406	-0.417
121I	-1.843	-1.129	0.113	-2.515	0.109	-0.011	2.398	2.398	-2.515	-0.411
122G	-1.767	-0.266	0.057	-2.611	0.082	-0.014	2.284	2.284	-2.611	-0.319
123L	-1.634	-0.534	0.393	-2.692	0.492	0.585	2.258	2.258	-2.692	-0.162
124L	-0.768	0.501	0.786	-2.488	0.820	1.073	1.660	1.660	-2.488	0.226
125I	-0.129	1.064	1.169	-1.913	1.112	1.090	1.558	1.558	-1.913	0.564
126E	-0.129	1.185	1.627	-1.157	1.795	1.685	1.623	1.795	-1.157	0.947
127D	0.585	1.423	1.954	-0.338	2.060	1.698	1.408	2.060	-0.338	1.256
128P	0.585	0.680	1.954	-0.118	2.060	1.698	1.408	2.060	-0.118	1.181
129K	1.356	0.860	2.524	-0.411	2.552	2.321	1.086	2.552	-0.411	1.470
130P	0.281	0.568	2.113	-1.040	2.196	1.727	1.547	2.196	-1.040	1.056
131L	0.281	0.113	2.113	-1.426	2.196	1.727	1.547	2.196	-1.426	0.936
132R	0.781	1.173	2.141	-1.235	2.242	2.197	1.318	2.242	-1.235	1.231
133L	0.187	0.359	1.571	-0.518	1.595	1.604	1.842	1.842	-0.518	0.948
134D	0.465	0.654	1.477	0.349	1.476	1.605	1.782	1.782	0.349	1.115
135D	1.179	0.473	1.561	0.781	1.467	1.599	0.336	1.599	0.336	1.057
136V	1.046	-0.066	1.290	1.026	1.166	1.595	0.605	1.595	-0.066	0.952
137S	1.761	0.886	1.617	1.042	1.431	1.608	0.390	1.761	0.390	1.248
138A	1.261	-0.294	1.346	1.101	1.112	1.119	-0.612	1.346	-0.612	0.719
139H	1.040	0.333	1.225	1.178	0.948	0.650	-0.443	1.225	-0.443	0.705
140P	0.768	0.069	1.206	0.948	0.938	0.651	-0.710	1.206	-0.710	0.553
141A	0.718	0.069	1.047	0.256	0.738	0.631	-0.869	1.047	-0.869	0.370
142S	0.003	0.427	0.982	-0.356	0.692	0.635	0.392	0.982	-0.356	0.396
143I	0.003	-0.835	1.066	-0.827	0.793	0.034	0.345	1.066	-0.835	0.083
144G	0.003	-0.420	1.066	-0.770	0.793	0.034	0.345	1.066	-0.770	0.150
145F	-0.250	-0.689	1.318	-0.326	1.030	0.053	1.687	1.687	-0.689	0.403
146P	-0.528	-0.156	1.328	0.280	1.048	0.653	1.794	1.794	-0.528	0.631
147P	0.111	-0.629	1.711	0.919	1.339	0.670	1.693	1.711	-0.629	0.831
148Y	-0.117	-0.174	1.963	1.447	1.658	0.689	1.912	1.963	-0.174	1.054
149H	0.199	0.724	2.019	1.453	1.750	0.702	1.606	2.019	0.199	1.208
150P	0.332	0.459	2.206	0.957	1.950	1.308	1.385	2.206	0.332	1.228
151P	0.528	-0.104	2.160	-0.018	1.832	1.309	1.206	2.160	-0.104	0.987
152M	0.067	0.165	1.842	-0.814	1.549	1.294	1.125	1.842	-0.814	0.747
153R	-0.648	0.183	1.599	-1.374	1.385	0.679	1.293	1.599	-1.374	0.445
154T	-0.420	-0.272	1.346	-1.332	1.066	0.660	1.073	1.346	-1.332	0.303
155F	-0.787	-0.859	0.982	-1.355	0.784	0.643	1.442	1.442	-1.355	0.121
156L	-0.389	0.129	1.234	-1.296	1.011	0.645	1.717	1.717	-1.296	0.436
157G	-0.888	0.237	0.683	-1.367	0.528	0.022	2.306	2.306	-1.367	0.217
158V	-0.951	0.423	0.917	-1.387	0.847	0.626	2.265	2.265	-1.387	0.391
159P	-0.604	1.058	0.860	-1.479	0.884	0.624	2.602	2.602	-1.479	0.564
160V	0.244	1.275	1.375	-1.711	1.349	1.243	2.166	2.166	-1.711	0.849
161R	0.515	2.227	1.655	-1.801	1.713	1.732	2.157	2.227	-1.801	1.171
162V	1.242	1.239	2.103	-1.702	2.087	2.330	1.542	2.330	-1.702	1.263
163R	1.521	1.962	2.010	-1.097	1.968	2.331	1.482	2.331	-1.097	1.454
164D	1.173	1.639	2.066	-0.410	1.932	2.333	1.145	2.333	-0.410	1.411
165E	1.268	0.896	1.627	0.117	1.412	1.709	1.146	1.709	0.117	1.168
166S	1.830	-0.086	1.945	0.219	1.576	1.727	0.598	1.945	-0.086	1.116
167F	0.983	-1.146	1.431	0.019	1.112	1.108	1.034	1.431	-1.146	0.649
168G	0.231	-0.480	1.412	-0.502	1.030	0.638	1.375	1.412	-0.502	0.529
169T	-0.844	-0.568	1.001	-0.931	0.674	0.044	1.836	1.836	-0.931	0.173
170L	-0.926	-0.228	1.047	-1.284	0.674	0.044	1.717	1.717	-1.284	0.149

171Y	0.288	0.467	1.384	-1.180	1.039	0.529	1.457	1.457	-1.180	0.569
172L	0.288	1.483	1.842	-0.838	1.722	1.123	1.521	1.842	-0.838	1.020
173T	0.288	2.315	1.842	-0.365	1.722	1.123	1.521	2.315	-0.365	1.207
174D	1.312	2.315	2.225	0.308	2.023	1.159	0.973	2.315	0.308	1.474
175K	1.793	2.134	1.963	0.671	1.741	1.139	0.642	2.134	0.642	1.440
176T	2.754	1.129	2.374	1.055	2.105	1.176	0.370	2.754	0.370	1.566
177N	2.558	1.493	2.421	1.176	2.224	1.175	0.549	2.558	0.549	1.657
178G	1.344	1.423	2.085	0.951	1.859	0.691	0.809	2.085	0.691	1.309
179Q	1.394	1.335	1.786	0.816	1.376	0.116	0.904	1.786	0.116	1.104
180P	1.698	1.383	1.860	0.924	1.540	0.585	0.854	1.860	0.585	1.264
181F	1.887	1.599	1.832	1.294	1.549	1.033	0.958	1.887	0.958	1.451
182S	2.159	1.678	2.113	2.083	1.914	1.522	0.949	2.159	0.949	1.774
183D	2.273	0.618	2.113	2.420	1.905	2.079	0.760	2.420	0.618	1.738
184D	1.906	-0.017	1.748	2.135	1.622	2.062	1.128	2.135	-0.017	1.512
185D	1.906	-0.066	1.730	1.155	1.677	2.063	1.312	2.063	-0.066	1.397
186E	1.261	-0.605	1.459	-0.193	1.513	2.045	1.741	2.045	-0.605	1.032
187V	1.009	-1.384	1.515	-1.274	1.567	1.598	1.913	1.913	-1.384	0.706
188L	0.509	-1.288	1.244	-1.803	1.248	1.109	0.912	1.248	-1.803	0.276
189V	-0.705	-1.083	0.889	-1.915	0.938	0.626	1.356	1.356	-1.915	0.015
190Q	-1.065	-0.987	0.561	-1.815	0.574	0.026	0.372	0.574	-1.815	-0.333
191A	-0.698	-1.478	0.683	-1.884	0.583	0.025	-1.227	0.683	-1.884	-0.571
192L	0.016	-0.851	0.767	-2.050	0.574	0.019	-2.672	0.767	-2.672	-0.599
193A	0.383	-0.971	0.889	-2.166	0.583	0.018	-4.271	0.889	-4.271	-0.791
194A	0.364	-0.971	0.552	-2.206	0.164	-0.025	-4.434	0.552	-4.434	-0.937
195A	-0.275	-1.067	0.412	-2.228	0.146	-0.023	-3.102	0.412	-3.102	-0.877
196A	0.440	-1.067	0.496	-2.261	0.136	-0.028	-4.547	0.496	-4.547	-0.976
197G	0.073	-0.458	0.375	-2.391	0.127	-0.027	-2.948	0.375	-2.948	-0.750
198I	0.073	-1.085	0.375	-2.468	0.127	-0.027	-2.948	0.375	-2.948	-0.851
199A	0.383	0.053	0.674	-1.998	0.437	0.014	-2.051	0.674	-2.051	-0.356
200V	0.383	-0.152	0.674	-1.327	0.437	0.014	-2.051	0.674	-2.051	-0.289
201A	0.288	-0.462	1.113	-0.537	0.957	0.638	-2.052	1.113	-2.052	-0.008
202N	0.212	0.029	1.169	-0.236	0.984	0.642	-1.939	1.169	-1.939	0.123
203A	-0.041	-0.090	1.421	-0.551	1.221	0.661	-0.597	1.421	-0.597	0.289
204R	0.572	-0.090	1.870	-1.181	1.604	0.702	-1.022	1.870	-1.181	0.351
205L	0.819	-0.072	2.197	-1.386	1.977	0.745	0.151	2.197	-1.386	0.633
206Y	0.509	0.133	1.898	-1.419	1.668	0.704	-0.746	1.898	-1.419	0.392
207Q	0.737	1.353	2.346	-1.147	2.306	1.299	0.330	2.346	-1.147	1.032
208Q	0.604	1.353	1.917	-1.212	1.832	0.674	-0.680	1.917	-1.212	0.641
209A	1.451	1.718	2.431	-1.605	2.296	1.293	-1.116	2.431	-1.605	0.924
210K	1.951	1.215	2.505	-1.943	2.433	1.316	-1.284	2.505	-1.943	0.885
211A	1.982	0.059	2.328	-1.840	2.214	1.294	-1.288	2.328	-1.840	0.678
212R	0.971	0.634	2.019	-1.450	1.859	1.277	-1.429	2.019	-1.450	0.554
213Q	0.332	-0.180	1.879	-1.009	1.841	1.279	-0.097	1.879	-1.009	0.578
214S	0.465	-0.180	1.758	-0.973	1.567	1.284	-0.188	1.758	-0.973	0.533
215W	0.465	-0.222	1.758	-1.436	1.567	1.284	-0.188	1.758	-1.436	0.461
216I	0.528	0.820	1.524	-1.885	1.248	0.679	-0.147	1.524	-1.885	0.395
217E	0.414	0.820	1.627	-2.121	1.349	1.261	-0.311	1.627	-2.121	0.434
218A	0.636	0.245	1.748	-1.744	1.513	1.730	-0.480	1.748	-1.744	0.521
219T	0.762	0.736	1.589	-1.306	1.476	1.707	-0.180	1.707	-1.306	0.683
220R	1.401	0.820	1.730	-0.926	1.494	1.705	-1.512	1.730	-1.512	0.673
221D	1.236	-0.198	1.599	-0.927	1.285	1.125	-1.445	1.599	-1.445	0.382
222I	1.597	-0.941	1.926	-1.109	1.649	1.725	-0.461	1.926	-1.109	0.626
223A	0.686	0.239	1.646	-1.453	1.504	1.710	-0.067	1.710	-1.453	0.609
224T	-0.161	0.866	1.132	-1.631	1.039	1.091	0.369	1.132	-1.631	0.386
225E	-0.382	0.866	1.010	-1.722	0.875	0.622	0.538	1.010	-1.722	0.258
226L	0.484	0.866	1.141	-1.543	0.847	0.620	0.216	1.141	-1.543	0.376
227L	0.680	1.429	1.337	-1.084	1.002	0.640	1.267	1.429	-1.084	0.753
228S	0.844	1.633	1.468	-0.788	1.212	1.220	1.200	1.633	-0.788	0.970
229G	0.484	1.269	1.384	-0.468	1.121	0.639	1.446	1.446	-0.468	0.839

230T	1.198	0.546	1.468	-0.584	1.112	0.634	0.001	1.468	-0.584	0.625
231E	2.109	-0.120	1.748	-0.596	1.257	0.648	-0.393	2.109	-0.596	0.665
232P	1.464	0.119	1.477	-0.839	1.093	0.630	0.036	1.477	-0.839	0.569
233A	0.522	-0.444	1.421	-0.783	1.093	0.634	0.287	1.421	-0.783	0.390
234T	0.459	-0.540	1.655	-1.008	1.412	1.239	0.245	1.655	-1.008	0.494
235V	-0.616	-1.031	1.244	-1.173	1.057	0.645	0.706	1.244	-1.173	0.119
236F	-0.983	-0.935	0.879	-1.593	0.774	0.627	1.075	1.075	-1.593	-0.022
237R	-0.983	-0.186	0.879	-1.891	0.774	0.627	1.075	1.075	-1.891	0.042
238L	-1.179	-0.999	0.683	-2.210	0.619	0.607	0.024	0.683	-2.210	-0.351
239V	-0.452	-0.999	1.132	-2.284	0.993	1.205	-0.591	1.205	-2.284	-0.142
240A	0.263	-0.072	1.197	-2.327	1.039	1.201	-1.852	1.201	-2.327	-0.079
241A	-0.585	-0.276	0.683	-2.296	0.574	0.582	-1.416	0.683	-2.296	-0.391
242E	0.357	0.215	1.216	-2.338	1.203	1.171	-1.786	1.216	-2.338	0.005
243A	0.010	-0.360	1.253	-2.432	1.221	1.175	-1.940	1.253	-2.432	-0.153
244L	0.206	-0.360	1.449	-2.374	1.376	1.195	-0.889	1.449	-2.374	0.086
245K	0.206	0.383	1.449	-2.242	1.376	1.195	-0.889	1.449	-2.242	0.211
246L	-0.155	-0.448	1.122	-1.970	1.011	0.595	-1.873	1.122	-1.970	-0.245
247T	0.345	-0.244	1.393	-1.488	1.330	1.084	-0.872	1.393	-1.488	0.221
248A	1.059	-0.939	1.477	-1.096	1.321	1.079	-2.317	1.477	-2.317	0.083
249A	0.832	-1.035	1.029	-0.759	0.683	0.484	-3.392	1.029	-3.392	-0.308
250D	0.832	-1.035	1.029	-0.736	0.683	0.484	-3.392	1.029	-3.392	-0.305
251A	0.269	-1.670	0.711	-1.086	0.519	0.466	-2.844	0.711	-2.844	-0.519
252A	0.269	-1.312	0.711	-1.618	0.519	0.466	-2.844	0.711	-2.844	-0.544
253L	-0.098	-1.408	0.589	-2.008	0.510	0.467	-1.245	0.589	-2.008	-0.456
254V	-0.597	-0.665	0.561	-2.124	0.465	-0.003	-1.016	0.561	-2.124	-0.483
255A	-0.964	0.007	0.440	-1.876	0.455	-0.001	0.583	0.583	-1.876	-0.194
256V	-0.465	0.546	0.711	-1.256	0.774	0.488	1.584	1.584	-1.256	0.340
257P	0.610	0.527	1.122	-0.772	1.130	1.082	1.123	1.130	-0.772	0.689
258V	1.476	0.527	1.515	-0.100	1.458	1.569	0.525	1.569	-0.100	0.996
259D	1.078	0.624	1.505	0.060	1.504	1.587	1.480	1.587	0.060	1.120
260E	1.445	0.085	1.870	0.228	1.786	1.604	1.111	1.870	0.085	1.161
261D	1.445	0.049	1.627	-0.162	1.513	1.585	-0.119	1.627	-0.162	0.848
262M	1.812	-0.587	1.748	-0.446	1.522	1.583	-1.718	1.812	-1.718	0.559
263P	1.812	0.155	1.748	-0.757	1.522	1.583	-1.718	1.812	-1.718	0.621
264A	1.084	0.371	1.300	-0.718	1.148	0.985	-1.103	1.300	-1.103	0.438
265A	0.813	0.167	1.019	-0.694	0.784	0.496	-1.094	1.019	-1.094	0.213
266D	1.571	-0.038	1.356	-0.625	1.103	1.079	-1.065	1.571	-1.065	0.483
267V	0.857	-0.673	1.029	-0.982	0.838	1.065	-0.850	1.065	-0.982	0.183
268G	0.142	-0.901	0.945	-1.529	0.847	1.071	0.595	1.071	-1.529	0.167
269E	-0.224	-0.953	0.823	-1.991	0.838	1.072	2.194	2.194	-1.991	0.251
270L	-1.362	-1.037	0.412	-2.484	0.501	0.585	2.525	2.525	-2.484	-0.123
271L	-0.635	-0.929	0.860	-2.623	0.875	1.183	1.910	1.910	-2.623	0.092
272V	-0.667	-0.098	1.066	-2.611	1.075	1.203	1.950	1.950	-2.611	0.274
273I	-1.394	0.854	0.618	-2.444	0.701	0.605	2.565	2.565	-2.444	0.215
274E	-0.452	1.179	0.692	-2.096	0.647	0.600	2.131	2.131	-2.096	0.386
275T	0.541	0.507	0.926	-1.536	0.793	0.614	1.856	1.856	-1.536	0.529
276V	0.907	0.017	1.047	-1.113	0.802	0.613	0.257	1.047	-1.113	0.361
277G	1.179	0.968	1.066	-0.775	0.811	0.613	0.524	1.179	-0.775	0.626
278S	0.819	0.017	0.739	-0.778	0.446	0.013	-0.460	0.819	-0.778	0.114
279A	0.901	-0.935	0.692	-0.855	0.446	0.013	-0.341	0.901	-0.935	-0.011
280V	0.629	-0.308	0.674	-1.088	0.437	0.013	-0.608	0.674	-1.088	-0.036
281A	0.035	0.602	0.561	-1.123	0.474	0.015	-0.020	0.602	-1.123	0.078
282S	-0.016	1.093	0.403	-1.341	0.273	-0.005	-0.179	1.093	-1.341	0.032
283I	0.117	-0.088	0.832	-1.562	0.747	0.620	0.830	0.832	-1.562	0.214
284V	0.680	0.596	1.150	-1.801	0.911	0.638	0.282	1.150	-1.801	0.351
285G	0.041	0.596	1.010	-1.955	0.893	0.640	1.614	1.614	-1.955	0.406
286R	-0.237	-0.032	1.103	-1.868	1.011	0.639	1.674	1.674	-1.868	0.327
287T	0.035	-0.218	1.122	-1.651	1.020	0.638	1.941	1.941	-1.651	0.413
288I	0.402	-0.709	1.244	-1.468	1.030	0.637	0.342	1.244	-1.468	0.211

289P	0.402	-0.480	1.244	-1.472	1.030	0.637	0.342	1.244	-1.472	0.243
290V	0.269	-1.043	0.814	-1.516	0.556	0.012	-0.667	0.814	-1.516	-0.225
291A	-0.294	-0.134	0.496	-1.777	0.392	-0.006	-0.119	0.496	-1.777	-0.206
292G	-0.370	0.441	0.552	-1.907	0.419	-0.003	-0.006	0.552	-1.907	-0.125
293A	-0.237	-0.282	0.739	-2.180	0.619	0.603	-0.227	0.739	-2.180	-0.138
294V	0.490	-0.456	1.188	-2.337	0.993	1.201	-0.842	1.201	-2.337	0.034
295L	0.123	-0.456	1.066	-2.479	0.984	1.203	0.757	1.203	-2.479	0.171
296R	-0.819	0.357	1.010	-2.421	0.984	1.207	1.008	1.207	-2.421	0.190
297E	-1.185	0.171	0.889	-2.221	0.975	1.208	2.607	2.607	-2.221	0.349
298V	-0.509	-0.729	1.309	-1.449	1.294	1.247	1.905	1.905	-1.449	0.438
299F	0.433	-0.274	1.384	-0.681	1.239	1.242	1.471	1.471	-0.681	0.688
300V	-0.338	0.714	0.814	0.011	0.747	0.619	1.793	1.793	-0.338	0.623
301N	-0.698	1.623	0.730	0.241	0.656	0.039	2.039	2.039	-0.698	0.661
302G	-0.199	0.918	1.281	-0.134	1.139	0.662	1.450	1.450	-0.199	0.731
303I	0.648	0.830	1.776	-0.887	1.658	1.282	1.198	1.776	-0.887	0.929
304P	0.648	1.968	1.776	-1.462	1.658	1.282	1.198	1.968	-1.462	1.010
305R	0.838	1.513	1.748	-1.729	1.668	1.730	1.302	1.748	-1.729	1.010
306R	0.743	1.239	2.188	-1.622	2.187	2.355	1.301	2.355	-1.622	1.199
307V	1.015	0.221	2.206	-1.222	2.196	2.355	1.568	2.355	-1.222	1.191
308D	1.514	0.892	2.234	-0.865	2.242	2.825	1.339	2.825	-0.865	1.454
309R	0.667	0.980	1.720	-0.639	1.777	2.206	1.775	2.206	-0.639	1.212
310V	0.895	-0.038	1.617	-0.614	1.668	2.180	1.749	2.180	-0.614	1.065
311D	1.489	0.598	1.730	-0.749	1.631	2.179	1.161	2.179	-0.749	1.148
312L	0.275	0.634	1.375	-1.205	1.321	1.695	1.605	1.695	-1.205	0.814
313E	0.642	0.634	1.216	-1.315	1.166	1.560	1.597	1.597	-1.315	0.786
314G	1.369	0.059	1.664	-1.298	1.540	2.158	0.982	2.158	-1.298	0.925
315L	0.155	-0.030	1.309	-1.139	1.230	1.674	1.425	1.674	-1.139	0.661
316D	0.869	0.175	1.393	-1.002	1.221	1.669	-0.020	1.669	-1.002	0.615
317E	1.009	0.263	1.337	-0.912	1.175	1.558	-0.002	1.558	-0.912	0.633
318L	0.781	0.047	1.346	-1.040	1.221	1.558	-1.013	1.558	-1.040	0.414
319A	1.723	0.251	1.421	-0.822	1.166	1.553	-1.447	1.723	-1.447	0.549
320D	1.224	0.047	1.393	-0.668	1.121	1.083	-1.218	1.393	-1.218	0.426
321A	0.863	-0.697	1.066	-0.540	0.756	0.483	-2.202	1.066	-2.202	-0.039
322G	0.863	-0.901	1.066	-0.722	0.756	0.483	-2.202	1.066	-2.202	-0.094
323P	0.149	-1.170	0.982	-1.055	0.765	0.489	-0.757	0.982	-1.170	-0.085
324A	-1.065	-1.733	0.627	-1.615	0.455	0.005	-0.313	0.627	-1.733	-0.520
325L	-1.065	-0.919	0.870	-1.848	0.729	0.024	0.917	0.917	-1.848	-0.185
326L	-2.007	-0.715	0.795	-1.947	0.784	0.029	1.351	1.351	-2.007	-0.244
327L	-1.874	0.303	0.982	-1.872	0.984	0.635	1.131	1.131	-1.874	0.041
328P	-1.874	1.135	0.982	-1.770	0.984	0.635	1.131	1.135	-1.874	0.174
329L	-1.027	1.267	1.496	-1.907	1.449	1.254	0.695	1.496	-1.907	0.461
330R	-0.085	1.375	1.571	-2.167	1.394	1.249	0.260	1.571	-2.167	0.514
331A	0.825	0.562	1.851	-2.187	1.540	1.264	-0.134	1.851	-2.187	0.531
332R	0.459	1.189	1.487	-2.086	1.257	1.246	0.235	1.487	-2.086	0.541
333G	1.173	0.279	1.571	-1.755	1.248	1.241	-1.210	1.571	-1.755	0.364
334T	1.268	-0.444	1.132	-1.556	0.729	0.616	-1.209	1.268	-1.556	0.076
335V	0.901	-1.031	1.010	-1.602	0.720	0.618	0.390	1.010	-1.602	0.143
336A	0.402	-1.031	0.459	-1.765	0.237	-0.006	0.979	0.979	-1.765	-0.104
337G	-0.193	-1.236	0.346	-1.945	0.273	-0.004	1.568	1.568	-1.945	-0.170
338V	-0.755	-1.007	0.029	-2.108	0.109	-0.022	2.116	2.116	-2.108	-0.234
339V	-1.103	-0.420	0.066	-2.190	0.127	-0.018	1.962	1.962	-2.190	-0.225
340V	-0.825	0.303	0.216	-1.993	0.282	0.002	3.132	3.132	-1.993	0.159
341V	-0.806	1.026	0.552	-1.624	0.701	0.044	3.295	3.295	-1.624	0.456
342L	-0.212	1.481	0.664	-1.032	0.665	0.042	2.706	2.706	-1.032	0.616
343S	0.383	2.313	0.776	-0.595	0.629	0.041	2.118	2.313	-0.595	0.809
344Q	0.749	1.457	1.141	-0.371	0.911	0.058	1.749	1.749	-0.371	0.814
345G	1.344	0.792	1.253	-0.515	0.875	0.057	1.161	1.344	-0.515	0.709
346G	2.058	0.656	1.337	-0.665	0.866	0.051	-0.284	2.058	-0.665	0.574
347P	1.065	0.568	1.122	-0.856	0.665	0.035	-0.193	1.122	-0.856	0.344

348G	1.015	0.784	0.991	-0.865	0.446	0.013	-0.316	1.015	-0.865	0.296
349A	1.287	0.648	1.272	-0.580	0.811	0.502	-0.325	1.287	-0.580	0.516
350F	1.420	0.443	1.608	-0.240	1.221	1.101	-0.351	1.608	-0.351	0.743
351T	1.666	1.193	1.692	0.132	1.321	1.125	-0.408	1.692	-0.408	0.960
352D	0.724	0.588	1.617	0.095	1.376	1.130	0.027	1.617	0.027	0.794
353E	1.084	-0.066	1.945	-0.320	1.741	1.730	1.010	1.945	-0.320	1.018
354Q	1.401	-0.641	2.001	-1.154	1.832	1.743	0.704	2.001	-1.154	0.841
355L	0.806	-1.131	1.795	-1.921	1.722	1.740	0.608	1.795	-1.921	0.517
356E	0.307	-1.101	1.524	-2.617	1.403	1.251	-0.393	1.524	-2.617	0.053
357M	-0.054	-1.676	1.197	-2.872	1.039	0.652	-1.377	1.197	-2.872	-0.442
358M	-1.015	-1.023	0.804	-2.808	0.619	0.613	-1.289	0.804	-2.808	-0.585
359A	-0.300	-0.418	0.889	-2.433	0.610	0.608	-2.734	0.889	-2.734	-0.540
360A	-0.161	-0.418	0.832	-1.684	0.565	0.497	-2.717	0.832	-2.717	-0.441
361F	0.484	-0.418	1.169	-0.948	0.893	0.523	-2.498	1.169	-2.498	-0.114
362A	0.882	-0.448	1.178	-0.315	0.847	0.505	-3.453	1.178	-3.453	-0.115
363D	0.882	-0.448	1.178	-0.146	0.847	0.505	-3.453	1.178	-3.453	-0.091
364Q	0.168	-1.490	1.094	-0.433	0.856	0.511	-2.008	1.094	-2.008	-0.186
365A	0.882	-1.490	1.160	-1.140	0.902	0.507	-3.269	1.160	-3.269	-0.350
366A	0.117	-1.695	1.178	-1.747	0.920	0.532	-2.237	1.178	-2.237	-0.419
367L	-0.136	-1.695	1.234	-2.115	0.975	0.085	-2.065	1.234	-2.115	-0.531
368A	-1.097	-0.999	0.823	-2.136	0.610	0.048	-1.793	0.823	-2.136	-0.649
369W	-1.097	-0.144	0.823	-1.958	0.610	0.048	-1.793	0.823	-1.958	-0.501
370Q	-0.901	0.850	1.019	-1.755	0.765	0.068	-0.742	1.019	-1.755	-0.099
371L	0.092	1.173	1.253	-1.354	0.911	0.083	-1.017	1.253	-1.354	0.163
372A	0.338	2.190	1.580	-0.850	1.285	0.125	0.156	2.190	-0.850	0.689
373T	1.236	2.076	1.991	-0.327	1.741	0.725	0.133	2.076	-0.327	1.082
374S	1.122	2.399	2.094	-0.244	1.841	1.307	-0.031	2.399	-0.244	1.213
375Q	1.438	2.118	2.169	-0.727	1.877	1.319	-0.521	2.169	-0.727	1.096
376R	1.571	1.423	2.599	-1.619	2.351	1.943	0.488	2.599	-1.619	1.251
377R	1.736	1.149	2.730	-2.453	2.561	2.523	0.421	2.730	-2.453	1.238
378M	0.743	0.239	2.496	-2.922	2.415	2.508	0.696	2.508	-2.922	0.882
379R	0.996	0.149	2.440	-2.640	2.360	2.955	0.524	2.955	-2.640	0.969
380E	0.496	-0.174	1.889	-2.073	1.877	2.332	1.113	2.332	-2.073	0.780
381L	-0.351	-0.210	1.375	-1.410	1.412	1.713	1.549	1.713	-1.410	0.583
382D	0.244	0.808	1.580	-0.956	1.522	1.715	1.645	1.715	-0.956	0.937
383V	0.610	0.808	1.421	-0.617	1.367	1.580	1.637	1.637	-0.617	0.972
384L	0.383	1.718	1.524	-0.537	1.476	1.605	1.662	1.718	-0.537	1.119
385T	1.597	1.597	1.879	-0.036	1.786	2.088	1.219	2.088	-0.036	1.447
386D	1.230	1.107	2.038	0.061	1.941	2.224	1.227	2.224	0.061	1.404
387R	0.958	1.381	2.019	0.019	1.932	2.224	0.960	2.224	0.019	1.356
388D	1.672	1.107	2.103	-0.571	1.923	2.219	-0.486	2.219	-0.571	1.138
389R	1.609	0.363	2.337	-1.395	2.242	2.824	-0.527	2.824	-1.395	1.065
390I	1.609	-0.360	2.337	-1.909	2.242	2.824	-0.527	2.824	-1.909	0.888
391A	0.762	0.503	1.823	-1.838	1.777	2.204	-0.091	2.204	-1.838	0.734
392R	0.263	0.594	1.711	-1.099	1.631	2.335	0.185	2.335	-1.099	0.803
393D	0.629	-0.316	1.552	0.023	1.476	2.199	0.177	2.199	-0.316	0.820
394L	1.268	-1.180	1.851	1.434	1.668	2.817	0.123	2.817	-1.180	1.140
395H	0.901	-0.484	1.730	2.248	1.658	2.819	1.721	2.819	-0.484	1.513
396D	0.130	0.239	1.160	2.472	1.166	2.196	2.044	2.472	0.130	1.344
397H	-0.123	-0.504	1.216	1.599	1.221	1.750	2.216	2.216	-0.504	1.053
398V	0.724	-0.769	1.730	0.334	1.686	2.369	1.780	2.369	-0.769	1.122
399I	0.010	-0.673	1.487	-1.064	1.522	1.754	1.948	1.948	-1.064	0.712
400Q	-1.204	-0.673	1.150	-1.719	1.157	1.270	2.208	2.208	-1.719	0.313
401R	-1.204	-0.536	0.991	-1.976	0.984	0.650	0.931	0.991	-1.976	-0.023
402L	-1.476	-1.554	0.973	-1.930	0.975	0.650	0.664	0.975	-1.930	-0.243
403F	-0.610	-1.350	1.103	-1.895	0.948	0.648	0.342	1.103	-1.895	-0.116
404A	-1.571	-1.380	0.692	-2.120	0.583	0.611	0.614	0.692	-2.120	-0.367
405I	-1.704	-0.889	0.262	-2.276	0.109	-0.013	-0.395	0.262	-2.276	-0.701
406G	-1.704	0.063	0.262	-2.391	0.109	-0.013	-0.395	0.262	-2.391	-0.581

407L	-0.743	-0.564	0.655	-2.320	0.528	0.025	-0.483	0.655	-2.320	-0.415
408A	-0.515	-0.456	0.646	-2.120	0.483	0.025	0.527	0.646	-2.120	-0.202
409L	0.123	-0.098	0.786	-1.823	0.501	0.023	-0.805	0.786	-1.823	-0.185
410Q	-0.471	0.197	0.674	-1.694	0.537	0.025	-0.216	0.674	-1.694	-0.135
411G	0.244	0.281	1.001	-1.501	0.802	0.038	-0.431	1.001	-1.501	0.062
412A	0.244	0.467	1.160	-1.044	0.975	0.658	0.846	1.160	-1.044	0.472
413V	1.318	1.076	1.571	-0.434	1.330	1.252	0.385	1.571	-0.434	0.928
414P	1.205	1.531	1.674	0.130	1.431	1.834	0.221	1.834	0.130	1.147
415H	1.287	1.748	1.982	0.644	1.786	1.875	0.108	1.982	0.108	1.347
416E	1.287	1.561	2.225	0.778	2.060	1.894	1.338	2.225	0.778	1.592
417R	2.014	1.477	2.674	0.837	2.433	2.492	0.723	2.674	0.723	1.807
418N	1.647	1.155	2.309	0.755	2.151	2.475	1.091	2.475	0.755	1.655
419P	1.894	1.359	2.477	0.335	2.351	1.897	0.987	2.477	0.335	1.614
420E	1.780	0.796	2.477	-0.226	2.360	1.340	1.177	2.477	-0.226	1.386
421V	1.780	1.076	2.477	-0.755	2.360	1.340	1.177	2.477	-0.755	1.351
422Q	0.756	1.712	2.094	-1.244	2.060	1.305	1.725	2.094	-1.244	1.201
423Q	1.034	1.125	2.001	-1.234	1.941	1.306	1.665	2.001	-1.234	1.120
424R	1.173	0.538	1.945	-0.908	1.895	1.195	1.682	1.945	-0.908	1.074
425L	1.173	0.263	1.945	-0.425	1.895	1.195	1.682	1.945	-0.425	1.104
426S	0.560	1.006	1.496	0.049	1.513	1.154	2.108	2.108	0.049	1.127
427D	0.813	-0.054	1.440	0.347	1.458	1.601	1.935	1.935	-0.054	1.077
428V	1.179	-0.102	1.281	0.475	1.303	1.465	1.927	1.927	-0.102	1.076
429V	1.179	0.534	1.281	0.521	1.303	1.465	1.927	1.927	0.521	1.173
430D	1.148	0.534	1.459	0.649	1.522	1.488	1.931	1.931	0.534	1.247
431D	1.148	-0.330	1.459	0.753	1.522	1.488	1.931	1.931	-0.330	1.138
432L	1.148	-0.378	1.459	0.619	1.522	1.488	1.931	1.931	-0.378	1.112
433Q	0.876	0.401	1.440	0.246	1.513	1.488	1.664	1.664	0.246	1.090
434D	0.623	-0.414	1.496	-0.268	1.567	1.041	1.836	1.836	-0.414	0.840
435V	0.484	-0.140	1.552	-0.930	1.613	1.152	1.819	1.819	-0.930	0.793
436I	0.560	0.447	1.496	-1.505	1.586	1.148	1.705	1.705	-1.505	0.777
437Q	0.446	1.263	1.599	-2.030	1.686	1.731	1.541	1.731	-2.030	0.891
438E	0.142	0.447	1.524	-2.326	1.522	1.262	1.591	1.591	-2.326	0.595
439I	0.705	-0.534	1.842	-2.217	1.686	1.280	1.043	1.842	-2.217	0.543
440R	0.705	0.329	1.842	-1.929	1.686	1.280	1.043	1.842	-1.929	0.708
441T	0.206	-0.689	1.767	-1.606	1.549	1.257	1.212	1.767	-1.606	0.528
442T	0.345	-1.089	1.711	-1.178	1.504	1.146	1.229	1.711	-1.178	0.524
443I	0.269	-0.953	1.767	-0.942	1.531	1.150	1.342	1.767	-0.953	0.595
444Y	0.136	-0.629	1.496	-0.307	1.230	1.145	1.610	1.610	-0.629	0.669
445D	0.168	0.634	1.290	0.180	1.030	1.125	1.570	1.570	0.168	0.857
446L	-0.028	0.586	1.094	0.561	0.875	1.105	0.519	1.105	-0.028	0.673
447H	0.888	1.417	1.384	0.670	1.048	1.123	0.357	1.417	0.357	0.984
448G	1.388	1.002	1.459	0.484	1.185	1.147	0.188	1.459	0.188	0.979
449A	1.116	0.866	1.178	0.117	0.820	0.658	0.198	1.178	0.117	0.707
450S	1.192	1.680	1.122	-0.120	0.793	0.654	0.084	1.680	-0.120	0.772
451Q	1.388	0.620	1.160	-0.592	0.774	0.054	-0.142	1.388	-0.592	0.466
452G	1.293	0.942	1.599	-1.126	1.294	0.679	-0.143	1.599	-1.126	0.648
453I	0.579	0.806	1.515	-1.564	1.303	0.684	1.302	1.515	-1.564	0.661
454T	0.433	1.944	1.795	-2.024	1.622	1.289	1.141	1.944	-2.024	0.886
455R	0.433	1.129	1.795	-2.116	1.622	1.289	1.141	1.795	-2.116	0.756
456L	0.338	0.854	2.234	-2.218	2.142	1.913	1.140	2.234	-2.218	0.915
457R	0.338	1.058	2.234	-2.189	2.142	1.913	1.140	2.234	-2.189	0.948
458Q	0.642	0.245	2.309	-2.009	2.306	2.382	1.090	2.382	-2.009	0.995
459R	0.509	-0.342	1.879	-1.739	1.832	1.758	0.081	1.879	-1.739	0.568
460I	1.224	-1.156	1.963	-1.383	1.823	1.752	-1.364	1.963	-1.383	0.408
461D	0.724	-0.340	1.412	-1.173	1.339	1.129	-0.775	1.412	-1.173	0.331
462A	0.477	-1.053	1.085	-1.276	0.966	1.087	-1.948	1.087	-1.948	-0.095
463A	0.591	-1.053	0.982	-1.503	0.866	0.505	-1.784	0.982	-1.784	-0.200
464V	0.515	-0.514	1.057	-1.522	0.838	0.507	-1.854	1.057	-1.854	-0.139
465A	0.016	0.437	0.786	-1.497	0.519	0.018	-2.855	0.786	-2.855	-0.368

466Q	0.515	1.064	1.057	-0.925	0.838	0.507	-1.854	1.064	-1.854	0.172
467F	0.794	0.369	1.206	-0.286	0.993	0.527	-0.684	1.206	-0.684	0.417
468A	1.388	1.357	1.318	0.300	0.957	0.525	-1.273	1.388	-1.273	0.653
469D	0.673	1.848	1.234	0.588	0.966	0.531	0.172	1.848	0.172	0.859
470S	0.560	2.164	1.337	0.281	1.066	1.113	0.008	2.164	0.008	0.933
471G	1.470	1.213	1.599	-0.428	1.267	1.129	-0.202	1.599	-0.428	0.864
472L	1.748	1.076	1.748	-0.896	1.422	1.149	0.968	1.748	-0.896	1.031
473R	0.882	1.107	1.356	-1.051	1.093	0.662	1.565	1.565	-1.051	0.802
474T	0.850	0.197	1.533	-0.674	1.312	0.684	1.569	1.569	-0.674	0.782
475S	-0.092	0.333	1.477	-0.273	1.312	0.688	1.820	1.820	-0.273	0.752
476V	0.256	-0.164	1.440	-0.246	1.294	0.684	1.973	1.973	-0.246	0.748
477Q	0.351	-0.272	1.001	-0.496	0.774	0.060	1.975	1.975	-0.496	0.485
478F	0.155	0.093	1.047	-0.726	0.893	0.059	2.154	2.154	-0.726	0.525
479V	-0.838	0.171	0.814	-1.005	0.747	0.044	2.429	2.429	-1.005	0.337
480G	-0.193	0.171	1.085	-0.790	0.911	0.062	2.000	2.000	-0.790	0.464
481P	-0.806	0.083	0.636	-0.681	0.528	0.022	2.425	2.425	-0.806	0.315
482L	-0.458	0.580	0.580	-0.554	0.565	0.019	2.763	2.763	-0.554	0.499
483S	0.408	0.784	0.973	-0.405	0.893	0.506	2.165	2.165	-0.405	0.761
484V	0.459	-0.276	1.132	-0.146	1.093	0.526	2.325	2.325	-0.276	0.730
485V	0.459	-0.180	0.889	0.086	0.820	0.507	1.095	1.095	-0.180	0.525
486D	0.459	0.455	0.889	0.383	0.820	0.507	1.095	1.095	0.383	0.658
487S	0.180	0.407	0.739	0.074	0.665	0.487	-0.075	0.739	-0.075	0.354
488A	1.046	-0.448	1.132	-0.301	0.993	0.975	-0.673	1.132	-0.673	0.389
489L	1.660	0.127	1.580	-0.625	1.376	1.016	-1.098	1.660	-1.098	0.576
490A	1.160	0.331	1.309	-0.610	1.057	0.527	-2.099	1.309	-2.099	0.239
491D	1.242	0.235	1.487	-0.486	1.267	1.106	-2.286	1.487	-2.286	0.366
492Q	1.242	-0.400	1.487	-0.587	1.267	1.106	-2.286	1.487	-2.286	0.261
493A	1.590	-0.078	1.449	-1.142	1.248	1.102	-2.132	1.590	-2.132	0.291
494E	1.224	0.497	1.328	-1.705	1.239	1.104	-0.533	1.328	-1.705	0.451
495A	0.857	-0.078	1.487	-2.189	1.394	1.240	-0.525	1.487	-2.189	0.312
496V	0.971	-0.174	1.487	-2.353	1.385	1.797	-0.714	1.797	-2.353	0.343
497V	0.971	0.778	1.487	-2.423	1.385	1.797	-0.714	1.797	-2.423	0.469
498R	0.244	1.483	1.038	-2.453	1.011	1.199	-0.099	1.483	-2.453	0.346
499E	0.522	0.670	1.188	-2.165	1.166	1.219	1.071	1.219	-2.165	0.524
500A	1.198	-0.001	1.608	-1.294	1.485	1.258	0.369	1.608	-1.294	0.660
501V	1.565	0.812	1.730	-0.227	1.494	1.256	-1.230	1.730	-1.230	0.772
502S	1.065	0.998	1.178	0.746	1.011	0.633	-0.640	1.178	-0.640	0.713
503N	0.838	0.143	1.281	0.843	1.121	0.658	-0.615	1.281	-0.615	0.610
504A	0.838	0.365	1.440	0.498	1.294	1.278	0.662	1.440	0.365	0.911
505V	1.205	0.365	1.561	-0.142	1.303	1.277	-0.936	1.561	-0.936	0.662
506R	1.154	1.317	1.860	-0.362	1.786	1.851	-1.031	1.860	-1.031	0.939
507H	0.844	0.994	1.561	-0.590	1.476	1.811	-1.928	1.811	-1.928	0.595
508A	1.122	0.700	1.711	-0.552	1.631	1.831	-0.758	1.831	-0.758	0.812
509K	1.685	1.191	2.029	-0.731	1.795	1.849	-1.306	2.029	-1.306	0.930
510A	0.838	0.263	1.515	-0.611	1.330	1.230	-0.870	1.515	-0.870	0.528
511S	1.034	1.076	1.552	-0.503	1.312	0.630	-1.097	1.552	-1.097	0.572
512T	0.667	0.125	1.431	-0.430	1.303	0.631	0.502	1.431	-0.430	0.604
513L	0.572	0.465	1.412	-0.753	1.139	0.661	0.436	1.412	-0.753	0.562
514T	0.206	0.574	1.290	-1.251	1.130	0.663	2.035	2.035	-1.251	0.664
515V	0.155	0.622	1.589	-1.822	1.613	1.238	1.940	1.940	-1.822	0.762
516R	-0.408	1.257	1.272	-2.208	1.449	1.219	2.488	2.488	-2.208	0.724
517V	0.806	0.982	1.627	-2.063	1.759	1.703	2.044	2.044	-2.063	0.980
518K	1.110	0.874	1.702	-1.477	1.923	2.172	1.994	2.172	-1.477	1.185
519V	1.976	0.079	2.094	-0.243	2.251	2.659	1.397	2.659	-0.243	1.459
520D	1.129	-0.150	1.580	0.866	1.786	2.040	1.832	2.040	-0.150	1.298
521D	1.451	-0.114	1.487	1.571	1.704	2.056	1.866	2.056	-0.114	1.432
522D	0.585	-0.749	0.898	1.232	1.048	1.463	2.123	2.123	-0.749	0.943
523L	1.312	-0.797	1.346	0.387	1.422	2.061	1.508	2.061	-0.797	1.034
524C	0.446	-0.054	0.954	-0.797	1.093	1.574	2.105	2.105	-0.797	0.760

525I	0.142	0.519	0.879	-1.495	0.929	1.105	2.155	2.155	-1.495	0.605
526E	0.142	1.471	0.879	-1.589	0.929	1.105	2.155	2.155	-1.589	0.728
527V	1.167	1.710	1.262	-0.606	1.230	1.140	1.607	1.710	-0.606	1.073
528T	1.438	2.433	1.468	0.489	1.276	1.122	0.985	2.433	0.489	1.316
529D	2.210	1.738	2.038	1.454	1.768	1.745	0.662	2.210	0.662	1.659
530N	2.077	1.557	1.702	1.390	1.358	1.146	0.689	2.077	0.689	1.417
531G	1.729	1.487	1.739	0.426	1.376	1.149	0.535	1.739	0.426	1.206
532R	1.533	1.435	1.786	-0.673	1.494	1.148	0.714	1.786	-0.673	1.063
533G	1.533	0.447	1.786	-1.071	1.494	1.148	0.714	1.786	-1.071	0.865
534L	1.584	0.311	1.814	-0.909	1.549	1.707	0.801	1.814	-0.909	0.980
535P	0.642	1.143	1.758	-0.225	1.549	1.712	1.052	1.758	-0.225	1.090
536D	0.705	1.639	1.524	0.153	1.230	1.107	1.094	1.639	0.153	1.065
537E	0.705	1.728	1.524	0.061	1.230	1.107	1.094	1.728	0.061	1.064
538F	1.698	0.948	1.758	-0.016	1.376	1.122	0.819	1.758	-0.016	1.100
539T	1.925	1.613	1.505	-0.130	1.057	1.103	0.599	1.925	-0.130	1.096
540G	0.711	1.732	1.150	-0.236	0.747	0.619	1.043	1.732	-0.236	0.824
541S	0.547	0.900	1.019	-0.287	0.537	0.039	1.110	1.110	-0.287	0.552
542G	1.571	0.858	1.384	-0.169	0.893	0.076	0.746	1.571	-0.169	0.765
543L	0.661	0.722	1.103	-0.046	0.747	0.061	1.140	1.140	-0.046	0.627
544T	0.566	1.740	1.543	0.329	1.267	0.686	1.139	1.740	0.329	1.038
545N	0.534	1.249	1.720	0.290	1.485	0.708	1.142	1.720	0.290	1.019
546L	0.440	1.215	2.160	-0.197	2.005	1.333	1.141	2.160	-0.197	1.156
547R	1.154	1.910	2.244	-0.967	1.996	1.328	-0.304	2.244	-0.967	1.051
548Q	1.318	1.097	2.374	-1.614	2.205	1.907	-0.371	2.374	-1.614	0.988
549R	1.255	1.233	2.403	-1.983	2.269	1.909	-0.095	2.403	-1.983	0.999
550A	1.970	1.046	2.487	-1.948	2.260	1.904	-1.540	2.487	-1.948	0.883
551E	2.064	1.621	2.047	-1.768	1.741	1.279	-1.539	2.064	-1.768	0.778
552Q	2.045	0.872	1.711	-1.684	1.321	1.236	-1.702	2.045	-1.702	0.543
553A	2.273	0.872	1.608	-1.612	1.212	1.211	-1.727	2.273	-1.727	0.548
554G	1.559	0.668	1.543	-1.603	1.166	1.216	-0.466	1.559	-1.603	0.583
555G	1.394	0.041	1.412	-1.469	0.957	0.636	-0.399	1.412	-1.469	0.367
556E	0.433	0.269	1.001	-1.331	0.592	0.599	-0.127	1.001	-1.331	0.205
557F	0.433	-0.402	1.001	-1.155	0.592	0.599	-0.127	1.001	-1.155	0.134
558T	0.484	0.131	1.160	-0.969	0.793	0.619	0.032	1.160	-0.969	0.321
559L	-0.111	0.267	1.047	-0.957	0.829	0.621	0.621	1.047	-0.957	0.331
560A	-0.471	0.471	0.963	-0.686	0.738	0.040	0.867	0.963	-0.686	0.275
561S	0.471	1.327	1.019	-0.527	0.738	0.036	0.616	1.327	-0.527	0.526
562V	0.275	1.099	0.823	-0.467	0.583	0.016	-0.435	1.099	-0.467	0.271
563P	1.268	1.686	1.057	-0.441	0.729	0.031	-0.710	1.686	-0.710	0.517
564G	1.495	1.231	1.047	-0.492	0.683	0.031	0.301	1.495	-0.492	0.614
565A	1.413	0.399	1.094	-0.463	0.683	0.030	0.182	1.413	-0.463	0.477
566S	1.413	1.213	1.094	-0.359	0.683	0.030	0.182	1.413	-0.359	0.608
567G	0.699	-0.146	0.767	-0.534	0.419	0.017	0.397	0.767	-0.534	0.231
568T	0.604	0.083	1.206	-1.009	0.938	0.641	0.395	1.206	-1.009	0.408
569V	-0.161	-0.408	1.225	-1.574	0.957	0.667	1.428	1.428	-1.574	0.305
570L	-0.161	0.047	1.225	-1.931	0.957	0.667	1.428	1.428	-1.931	0.319
571R	-0.389	0.047	1.234	-1.841	1.002	0.667	0.417	1.234	-1.841	0.162
572W	-0.585	0.089	1.281	-1.311	1.121	0.666	0.597	1.281	-1.311	0.265
573S	-0.932	1.082	1.318	-0.847	1.139	0.670	0.443	1.318	-0.932	0.410
574A	0.060	0.481	1.552	-0.374	1.285	0.684	0.168	1.552	-0.374	0.551
575P	0.174	0.736	1.449	-0.233	1.185	0.102	0.332	1.449	-0.233	0.535
576L	0.806	0.632	0.973	0.006	1.485	0.137	-0.701	1.485	-0.701	0.477
577S	0.395	1.091	0.365	0.028	1.649	0.177	-1.870	1.649	-1.870	0.262
578Q	0.263	0.489	-0.093	0.141	1.968	0.237	-1.870	1.968	-1.870	0.162

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]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Hydrophilicity	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Flexibility	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Accessibility	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]

Turns	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Exposed Surface	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Polarity	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]
Antigenic Propensity	[1]MTTGGLVDENDGAAMRPLRHTLSQLRLHELLVEVQDRVEQIVEGRDRLDGLVEAMLVVTAGLDLEA TLRAIVHSATSLVDARYGAMEVHDRQHRVLHFVYEGIDEETVRRIGHLPKGLGVIGLLIEDPKPLRLDD VSAHPASIGFPPYHPPMRTFLGVPVRVRDESFGTLYLTDKTNGQPFSDDDEVLVQALAAAAGIAVAN ARLYQQAKARQSWIEATRDIATELLSGTEPATVFRLVAAEALKLTAADAALVAVPVDEDMPAADVGELL VIETVGSAVASIVGRTIPVAGAVLREVFVNGIPRRVDRVDLEGLDELADAGPALLLPLRARGTVAGVVV VLSQGGPGAFTDEQLEMMAAFADQAALAWQLATSQRRMRELDVLTDRDRIARDLHDHVIQRLFAIG LALQGAVPHERNPEVQQRLSDVVDDLQDVIQEIRTTIYDLHGASQGITRLRQRIDAAVAQFADSGLRT SVQFVGPLSVVDSALADQAEAVVREAVSNAVRHAKASTLTVRVKVDDDLCIEVTDNGRGLPDEFTGS GLTNLRQRAEQAGGEFTLASVPGASGTVLRWSAPLSQ[578]

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