

BcePred Prediction Server

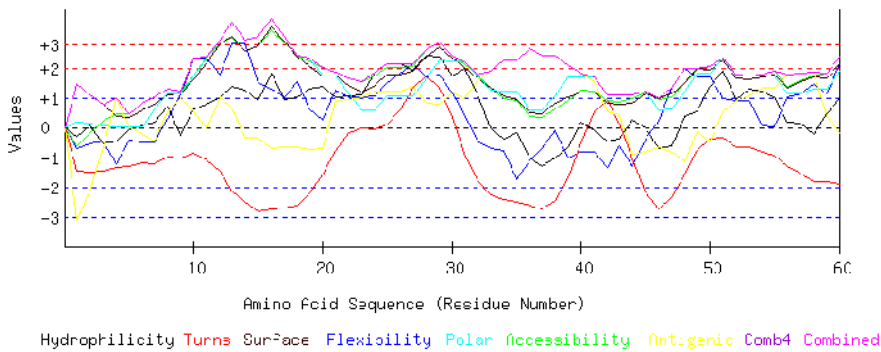
The server displays [1. GRAPHICAL RESULT](#) [2. TABULAR RESULT](#) [3. Overlap Display](#)

seqname=
Seq= MVPAGLCAYRDLRRKRARKWGDTVTQDDPRRVGVIVELIDHTIAIAKLNERGDLVQRLT
RARQRITDPQVRVVIAGLLKQGKSQLLNSLLNLPAARVGDDEATVVITVVSYSQAQPSARL
VLAAGPDGTTAAVDIPVDDISTDVERRAPHAGGREVLRVEVGAPSPLLRGGLAFIDTPGVG
GLGQPHLSATLGLLPEADAVLVSDTSQEFTEPEMWFVVRQAHQICPVGAVVATKTDLYPR
WREIVNANA AHLQRARVPMPIAVSSLLRSHAVTLNDKELNEESNFPPIVVKFLSEQVLSR
ATERVRAGVLGEIRSATEQLAVSLGSELSVNDPNLRDRLASDLERRKREAQQAVQQTAL
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DNFVWAYQRSEALADDVARSFADAGLDSVLSAELSPHVMGTDFGRLKALGRMESKPLRRG
HKMIIGMRGSYGGVVMIGMLSSVVGLGLFNPLSVGAGLILGRMAYKEDKQNRLLRVSEA
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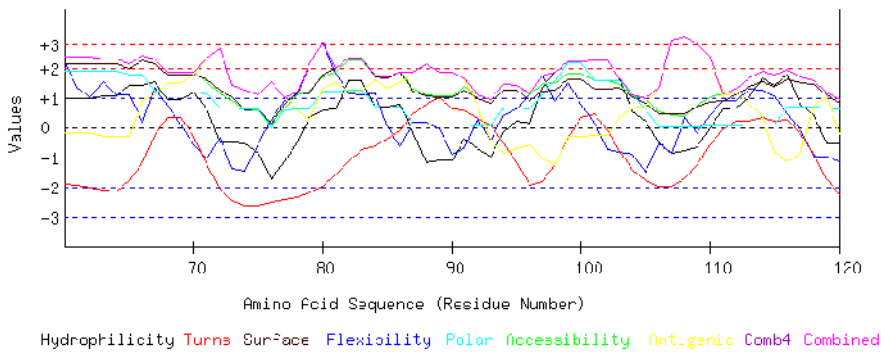
Length=640

GRAPHICAL RESULT

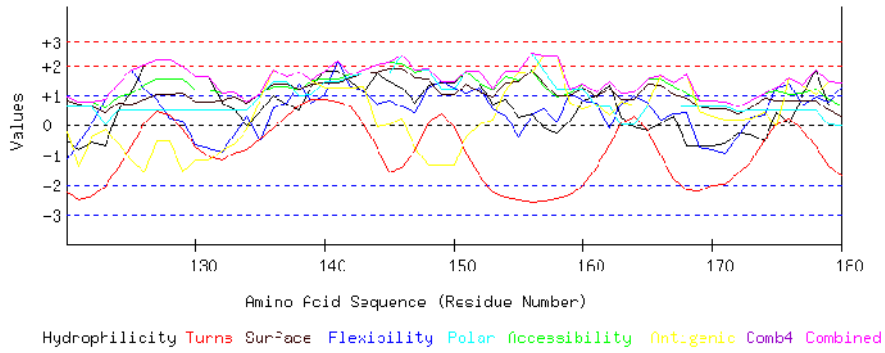
GRAPHICAL RESULT :: SEQ 1 to 60



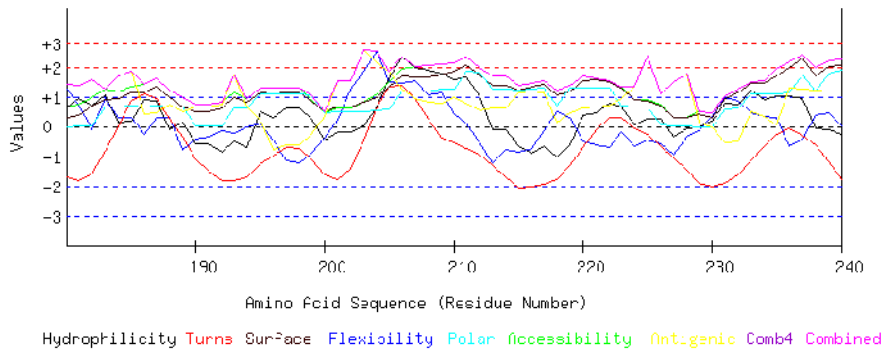
GRAPHICAL RESULT :: SEQ 61 to 120



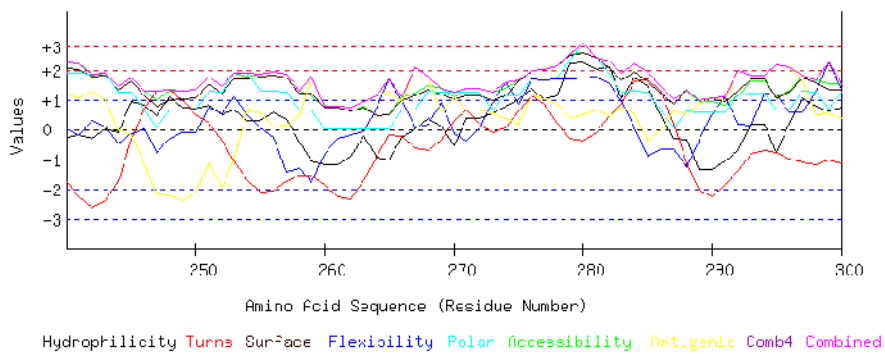
GRAPHICAL RESULT :: SEQ 121 to 180



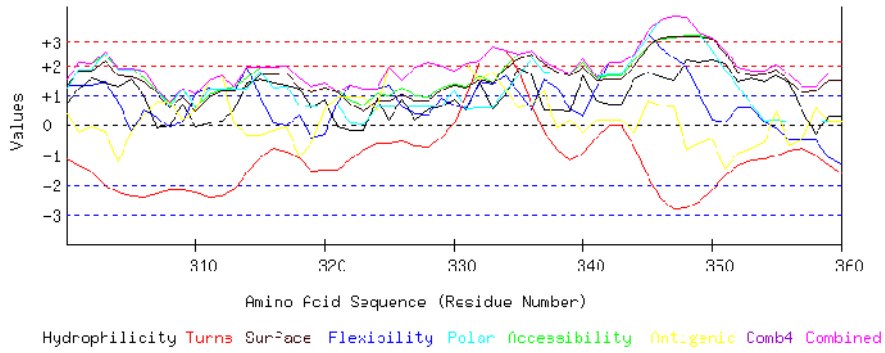
GRAPHICAL RESULT :: SEQ 181 to 240



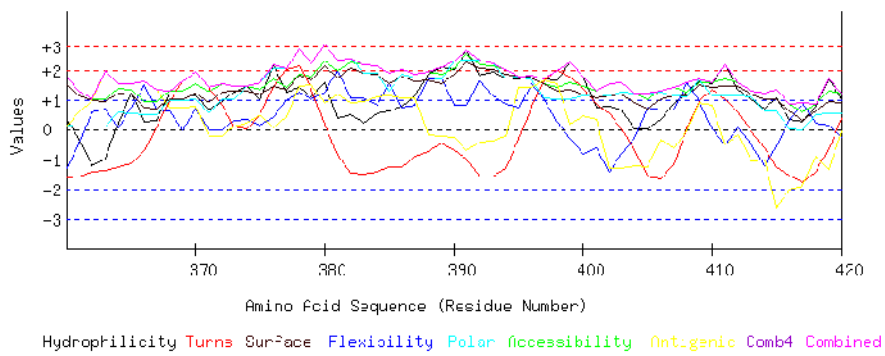
GRAPHICAL RESULT :: SEQ 241 to 300



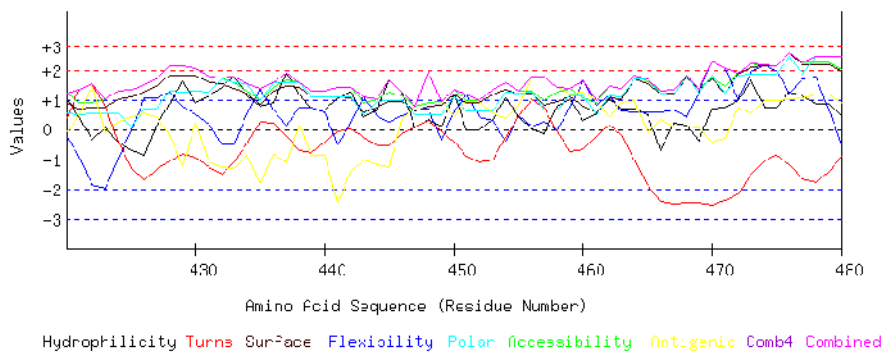
GRAPHICAL RESULT :: SEQ 301 to 360



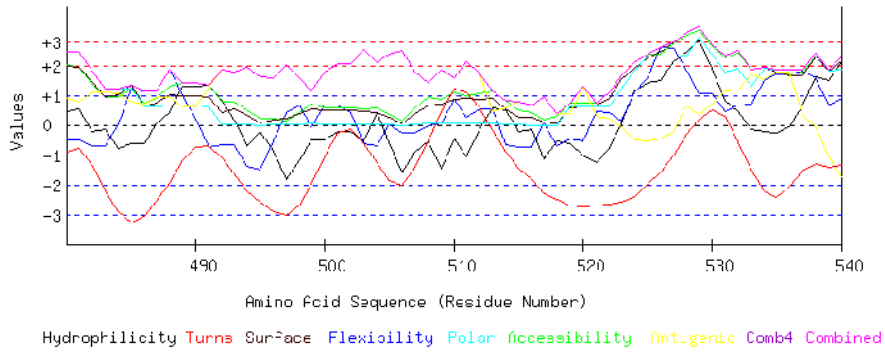
GRAPHICAL RESULT :: SEQ 361 to 420



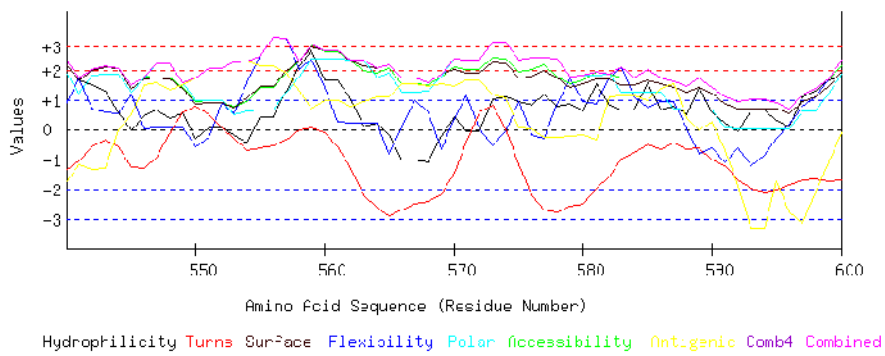
GRAPHICAL RESULT :: SEQ 421 to 480



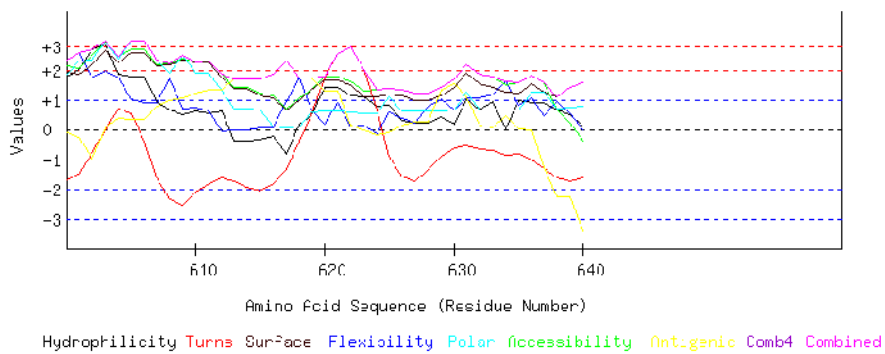
GRAPHICAL RESULT :: SEQ 481 to 540



GRAPHICAL RESULT :: SEQ 541 to 600



GRAPHICAL RESULT :: SEQ 601 to 660



68 D	0.920	0.736	1.851	0.342	1.768	1.168	1.506	1.851	0.342	1.185
69 P	0.920	0.101	1.851	0.339	1.768	1.168	1.506	1.851	0.101	1.093
70 Q	1.192	-0.583	1.870	-0.317	1.777	1.168	1.773	1.870	-0.583	0.983
71 V	0.629	-1.073	1.552	-1.247	1.613	1.150	2.321	2.321	-1.247	0.706
72 R	-0.509	-0.350	1.141	-2.071	1.276	0.662	2.652	2.652	-2.071	0.400
73 V	-0.509	-1.368	0.898	-2.469	1.002	0.643	1.422	1.422	-2.469	-0.054
74 V	-0.528	-1.476	0.561	-2.622	0.583	0.601	1.259	1.259	-2.622	-0.232
75 I	-0.876	-0.548	0.599	-2.601	0.601	0.605	1.105	1.105	-2.601	-0.159
76 A	-1.723	0.267	0.085	-2.501	0.136	-0.014	1.541	1.541	-2.501	-0.316
77 G	-1.128	0.894	0.655	-2.434	0.784	0.579	1.017	1.017	-2.434	0.052
78 L	-0.515	1.099	1.103	-2.324	1.166	0.620	0.592	1.166	-2.324	0.249
79 L	0.351	2.158	1.234	-2.168	1.139	0.618	0.271	2.158	-2.168	0.515
80 K	0.579	2.854	1.683	-1.982	1.777	1.212	1.346	2.854	-1.982	1.067
81 Q	0.629	1.818	1.842	-1.577	1.977	1.232	1.505	1.977	-1.577	1.061
82 G	1.590	1.123	2.253	-1.137	2.342	1.269	1.234	2.342	-1.137	1.239
83 K	1.590	1.105	2.253	-0.757	2.342	1.269	1.234	2.342	-0.757	1.291
84 S	0.648	1.129	1.720	-0.608	1.713	0.680	1.603	1.720	-0.608	0.984
85 Q	0.711	0.069	1.692	-0.399	1.649	0.678	1.327	1.692	-0.399	0.818
86 L	0.762	-0.627	1.851	-0.110	1.850	0.698	1.487	1.851	-0.627	0.844
87 L	-0.180	0.187	1.318	0.469	1.221	0.109	1.857	1.857	-0.180	0.712
88 N	-1.173	0.187	1.085	0.776	1.075	0.095	2.132	2.132	-1.173	0.597
89 S	-1.109	-0.064	1.057	1.011	1.011	0.093	1.856	1.856	-1.109	0.551
90 L	-1.109	-0.919	1.057	0.637	1.011	0.093	1.856	1.856	-1.109	0.375
91 L	-0.395	-0.715	1.384	0.574	1.276	0.106	1.640	1.640	-0.715	0.553
92 N	-0.705	0.303	1.085	0.297	0.966	0.066	0.743	1.085	-0.705	0.394
93 L	-0.983	-0.402	0.935	0.092	0.811	0.046	-0.427	0.935	-0.983	0.010
94 P	-0.136	0.429	1.449	-0.525	1.276	0.665	-0.862	1.449	-0.862	0.328
95 A	0.212	0.610	1.412	-1.186	1.257	0.661	-0.709	1.412	-1.186	0.322
96 A	0.130	1.149	1.103	-1.955	0.902	0.620	-0.595	1.149	-1.955	0.193
97 R	1.344	1.724	1.459	-1.834	1.212	1.104	-1.039	1.724	-1.834	0.567
98 V	1.843	0.910	1.487	-1.271	1.257	1.574	-1.268	1.843	-1.271	0.647
99 G	2.203	1.497	1.814	-0.345	1.622	2.173	-0.284	2.203	-0.345	1.240
100D	2.203	0.774	1.814	0.345	1.622	2.173	-0.284	2.203	-0.284	1.235
101D	2.267	0.139	1.580	0.453	1.303	1.569	-0.243	2.267	-0.243	1.010
102E	2.267	-0.725	1.580	-0.103	1.303	1.569	-0.243	2.267	-0.725	0.807
103A	1.672	-0.809	1.468	-0.771	1.339	1.570	0.346	1.672	-0.809	0.688
104T	0.534	-0.905	1.057	-1.437	1.002	1.083	0.676	1.083	-1.437	0.287
105V	0.231	-1.492	0.982	-1.787	0.838	0.614	0.726	0.982	-1.787	0.016
106V	-0.496	-0.540	0.533	-1.974	0.465	0.016	1.341	1.341	-1.974	-0.094
107I	-0.863	-0.851	0.412	-1.975	0.455	0.018	2.940	2.940	-1.975	0.019
108T	-0.781	0.329	0.365	-1.708	0.455	0.018	3.059	3.059	-1.708	0.248
109V	-0.667	-0.162	0.739	-1.262	0.701	0.036	2.802	2.802	-1.262	0.313
110V	-0.022	0.425	1.010	-0.596	0.866	0.054	2.373	2.373	-0.596	0.587
111S	0.617	0.880	1.150	-0.077	0.884	0.052	1.042	1.150	-0.077	0.650
112Y	0.667	0.880	1.281	0.217	1.103	0.075	1.164	1.281	0.075	0.770
113S	1.034	1.287	1.646	0.236	1.385	0.092	0.795	1.646	0.092	0.925
114A	1.679	1.245	1.917	0.321	1.549	0.111	0.366	1.917	0.111	1.027
115Q	1.401	1.040	1.767	0.227	1.394	0.091	-0.803	1.767	-0.803	0.731
116P	1.786	0.453	1.945	0.266	1.631	0.696	-1.136	1.945	-1.136	0.806
117S	0.794	-0.110	1.711	-0.206	1.485	0.681	-0.861	1.711	-0.861	0.499
118A	0.427	-0.965	1.589	-0.891	1.476	0.683	0.738	1.589	-0.965	0.437
119R	-0.534	-0.965	1.178	-1.741	1.112	0.646	1.009	1.178	-1.741	0.101
120L	-0.534	-1.152	0.935	-2.265	0.838	0.627	-0.221	0.935	-2.265	-0.253
121V	-0.812	-0.589	0.786	-2.489	0.683	0.607	-1.391	0.786	-2.489	-0.458
122L	-0.585	0.047	0.776	-2.378	0.638	0.607	-0.380	0.776	-2.378	-0.182
123A	-0.717	0.878	0.589	-2.066	0.437	0.001	-0.160	0.878	-2.066	-0.148
124A	0.496	1.369	0.945	-1.426	0.747	0.485	-0.603	1.369	-1.426	0.287
125G	1.091	1.860	1.057	-0.691	0.711	0.483	-1.192	1.860	-1.192	0.474
126P	2.001	1.233	1.337	0.080	0.856	0.498	-1.586	2.001	-1.586	0.631
127D	2.197	0.874	1.533	0.447	1.011	0.518	-0.535	2.197	-0.535	0.864
128G	2.197	0.239	1.533	0.332	1.011	0.518	-0.535	2.197	-0.535	0.756
129T	1.970	0.151	1.543	-0.127	1.057	0.518	-1.546	1.970	-1.546	0.509
130T	1.603	-0.665	1.178	-0.723	0.774	0.500	-1.177	1.603	-1.177	0.213
131A	1.603	-0.797	1.178	-1.057	0.774	0.500	-1.177	1.603	-1.177	0.146
132A	0.737	-0.893	1.047	-1.191	0.802	0.502	-0.855	1.047	-1.191	0.021
133V	0.541	-0.354	1.094	-0.929	0.920	0.501	-0.676	1.094	-0.929	0.157
134D	-0.022	0.281	0.776	-0.812	0.756	0.483	-0.128	0.776	-0.812	0.191
135I	0.477	-0.583	1.047	-0.457	1.075	0.972	0.873	1.075	-0.583	0.486
136P	0.977	0.598	1.318	-0.115	1.394	1.461	1.874	1.874	-0.115	1.072
137V	0.705	0.730	1.300	0.320	1.385	1.461	1.607	1.607	0.320	1.072
138D	0.484	1.365	1.178	0.666	1.221	0.992	1.776	1.776	0.484	1.097
139D	1.318	0.730	1.515	0.855	1.394	1.010	1.495	1.515	0.730	1.188
140I	1.818	1.004	1.543	0.846	1.440	1.480	1.266	1.818	0.846	1.342
141S	1.818	2.142	1.543	0.785	1.440	1.480	1.266	2.142	0.785	1.496
142T	1.451	1.287	1.702	0.621	1.595	1.616	1.274	1.702	0.621	1.364
143D	1.084	1.155	1.860	0.002	1.750	1.751	1.282	1.860	0.002	1.269
144V	1.723	0.706	2.001	-0.744	1.768	1.750	-0.050	2.001	-0.744	1.022
145R	1.445	0.802	2.094	-1.570	1.886	1.749	0.010	2.094	-1.570	0.917
146R	1.249	0.616	2.057	-1.430	1.905	2.349	0.237	2.349	-1.430	0.997
147A	0.749	0.429	1.786	-0.848	1.586	1.860	-0.764	1.860	-0.848	0.685
148P	1.344	1.243	1.898	0.082	1.549	1.858	-1.353	1.898	-1.353	0.946
149H	1.438	1.459	1.459	0.388	1.030	1.233	-1.351	1.459	-1.351	0.808
150A	1.438	1.273	1.459	-0.061	1.030	1.233	-1.351	1.459	-1.351	0.717
151G	1.799	1.068	1.786	-0.940	1.394	1.833	-0.368	1.833	-0.940	0.939
152G	1.432	1.255	1.421	-1.710	1.112	1.816	0.001	1.816	-1.710	0.761
153R	0.718	0.532	1.178	-2.275	0.948	1.201	0.169	1.201	-2.275	0.353
154E	0.850	0.293	1.608	-2.426	1.422	1.826	1.178	1.826	-2.426	0.679
155V	0.256	-0.378	1.496	-2.515	1.458	1.827	1.766	1.827	-2.515	0.559
156L	0.389	0.345	1.832	-2.572	1.868	2.427	1.740	2.427	-2.572	0.861
157R	-0.111	0.550	1.281	-2.543	1.385	1.804	2.330	2.330	-2.543	0.671
158V	-0.243	0.095	0.945	-2.456	0.975	1.204	2.356	2.356	-2.456	0.411
159E	0.123	1.046	1.066	-2.327	0.984	1.203	0.757	1.203	-2.327	0.408
160V	0.838	0.830	1.393	-2.008	1.248	1.216	0.542	1.393	-2.008	0.580
161G	0.983	0.722	1.113	-1.435	0.929	0.612	0.703	1.113	-1.435	0.518
162A	1.350	-0.110	1.477	-0.644	1.212	0.629	0.334	1.477	-0.644	0.607
163P	0.275	0.704	1.066	0.046	0.856	0.035	0.795	1.066	0.035	0.540
164S	-0.073	0.972	1.103	0.293	0.875	0.039	0.642	1.103	-0.073	0.550
165P	-0.167	0.744	1.543	-0.192	1.394	0.663	0.640	1.543	-0.192	0.661
166L	0.060	0.181	1.533	-1.016	1.349	0.663	1.651	1.651	-1.016	0.632
167L	0.288	0.385	1.281	-1.801	1.030	0.644	1.431	1.431	-1.801	0.466
168R	-0.705	0.415	1.047	-2.188	0.884	0.630	1.706	1.706	-2.188	0.256
169G	-0.705	-0.723	0.804	-2.231	0.610	0.611	0.476	0.804	-2.231	-0.165
170G	-0.705	-0.811	0.823	-2.024	0.556	0.610	0.293	0.823	-2.024	-0.180
171L	-0.629	-0.947	0.767	-1.975	0.528	0.606	0.179	0.767	-1.975	-0.210
172A	-0.262	-0.384	0.608	-1.613	0.373	0.470	0.171	0.608	-1.613	-0.091

173F	-0.294	0.243	0.814	-1.214	0.574	0.490	0.212	0.814	-1.214	0.118
174I	-0.521	0.321	1.066	-0.517	0.893	0.509	0.431	1.066	-0.521	0.312
175D	0.421	1.273	1.141	0.009	0.838	0.504	-0.003	1.273	-0.003	0.597
176T	0.054	1.361	1.019	0.224	0.829	0.505	1.595	1.595	0.054	0.798
177P	0.996	0.666	1.075	-0.171	0.829	0.501	1.345	1.345	-0.171	0.749
178G	1.862	0.934	1.206	-0.684	0.802	0.499	1.023	1.862	-0.684	0.806
179V	0.648	0.798	0.851	-1.392	0.492	0.016	1.467	1.467	-1.392	0.411
180G	0.680	1.253	0.646	-1.719	0.291	-0.004	1.427	1.427	-1.719	0.368
181G	0.926	0.716	0.730	-1.820	0.392	0.019	1.370	1.370	-1.820	0.333
182L	0.699	-0.116	0.982	-1.567	0.711	0.038	1.590	1.590	-1.567	0.334
183G	1.065	0.944	1.262	-0.804	0.893	0.657	1.268	1.268	-0.804	0.755
184Q	0.123	0.317	1.188	-0.022	0.948	0.662	1.703	1.703	-0.022	0.703
185P	0.174	0.317	1.346	0.869	1.148	0.682	1.862	1.862	0.174	0.914
186H	0.888	-0.246	1.431	1.097	1.139	0.677	0.417	1.431	-0.246	0.772
187L	0.857	0.291	1.636	0.936	1.339	0.697	0.458	1.636	0.291	0.888
188S	-0.104	0.291	1.225	0.250	0.975	0.660	0.730	1.225	-0.104	0.575
189A	0.123	-0.769	0.973	-0.334	0.656	0.641	0.510	0.973	-0.769	0.257
190T	-0.591	-0.410	0.730	-1.095	0.492	0.026	0.677	0.730	-1.095	-0.024
191L	-0.591	-0.326	0.730	-1.490	0.492	0.026	0.677	0.730	-1.490	-0.069
192G	-0.869	-0.122	0.823	-1.828	0.610	0.025	0.738	0.823	-1.828	-0.089
193L	-0.509	-0.210	1.150	-1.822	0.975	0.625	1.721	1.721	-1.822	0.276
194L	-0.705	-0.005	0.954	-1.705	0.820	0.605	0.671	0.954	-1.705	0.091
195P	0.509	0.103	1.309	-1.272	1.130	1.088	0.227	1.309	-1.272	0.442
196E	0.281	-0.460	1.318	-0.981	1.175	1.088	-0.784	1.318	-0.981	0.234
197A	0.629	-1.131	1.281	-0.718	1.157	1.084	-0.630	1.281	-1.131	0.239
198D	0.629	-1.228	1.281	-0.731	1.157	1.084	-0.630	1.281	-1.228	0.223
199A	0.263	-0.911	0.917	-1.115	0.875	1.067	-0.261	1.067	-1.115	0.119
200V	-0.465	-0.372	0.468	-1.638	0.501	0.469	0.354	0.501	-1.638	-0.098
201L	-0.186	0.215	0.618	-1.761	0.656	0.489	1.524	1.524	-1.761	0.222
202V	-0.186	1.275	0.618	-1.429	0.656	0.489	1.524	1.524	-1.429	0.421
203V	0.010	1.862	0.814	-0.461	0.811	0.509	2.575	2.575	-0.461	0.874
204S	0.655	2.533	1.085	0.652	0.975	0.527	2.146	2.533	0.527	1.225
205D	1.616	1.503	1.496	1.355	1.339	0.564	1.874	1.874	0.564	1.393
206T	2.343	1.455	1.945	1.381	1.713	1.162	1.259	2.343	1.162	1.608
207S	1.995	1.539	2.001	0.944	1.677	1.165	0.921	2.001	0.921	1.463
208Q	1.913	1.042	2.047	0.265	1.677	1.165	0.802	2.047	0.265	1.273
209E	1.774	1.127	2.103	-0.361	1.722	1.276	0.785	2.103	-0.361	1.204
210F	1.578	0.437	2.150	-0.538	1.841	1.275	0.964	2.150	-0.538	1.101
211T	1.660	0.109	2.328	-0.732	2.050	1.854	0.778	2.328	-0.732	1.150
212E	1.015	-0.556	1.991	-0.927	1.722	1.829	0.560	1.991	-0.927	0.805
213P	-0.111	-1.228	1.683	-1.300	1.376	1.255	0.608	1.683	-1.300	0.326
214E	-0.111	-0.773	1.683	-1.712	1.376	1.255	0.608	1.683	-1.712	0.332
215M	-0.673	-0.857	1.365	-2.046	1.212	1.236	1.156	1.365	-2.046	0.199
216W	-0.901	-0.743	1.468	-2.037	1.321	1.261	1.182	1.468	-2.037	0.222
217F	-0.654	-0.150	1.552	-1.922	1.422	1.285	1.125	1.552	-1.922	0.380
218V	-1.015	0.515	1.225	-1.781	1.057	0.685	0.141	1.225	-1.781	0.118
219R	-0.616	0.287	1.393	-1.293	1.185	1.288	0.464	1.393	-1.293	0.387
220Q	0.395	-0.490	1.702	-0.705	1.540	1.305	0.605	1.702	-0.705	0.622
221A	0.471	-0.623	1.627	-0.109	1.567	1.303	0.675	1.627	-0.623	0.702
222H	0.794	-0.719	1.533	0.291	1.485	1.319	0.709	1.533	-0.719	0.773
223Q	0.661	-0.182	1.346	0.293	1.285	0.713	0.930	1.346	-0.182	0.721
224I	0.048	-0.673	0.898	-0.075	0.902	0.672	1.355	1.355	-0.673	0.447
225C	0.275	-0.444	0.889	-0.268	0.856	0.672	2.365	2.365	-0.444	0.621
226P	0.275	-0.576	0.730	-0.658	0.683	0.052	1.088	1.088	-0.658	0.228
227V	-0.338	-0.935	0.281	-1.049	0.300	0.012	1.513	1.513	-1.049	-0.031
228G	-0.066	-0.348	0.300	-1.474	0.310	0.011	1.780	1.780	-1.474	0.073
229A	-0.022	-0.144	0.515	-1.914	0.401	-0.006	0.148	0.515	-1.914	-0.146
230V	0.174	0.347	0.468	-2.013	0.282	-0.006	-0.031	0.468	-2.013	-0.111
231V	0.768	0.982	1.038	-1.919	0.929	0.588	-0.555	1.038	-1.919	0.262
232A	0.737	0.874	1.244	-1.636	1.130	0.607	-0.514	1.244	-1.636	0.349
233T	1.236	0.467	1.515	-1.134	1.449	1.096	0.487	1.515	-1.134	0.731
234K	0.888	0.335	1.552	-0.674	1.467	1.100	0.333	1.552	-0.674	0.715
235T	1.002	0.317	1.926	-0.266	1.713	1.118	0.076	1.926	-0.266	0.841
236D	1.002	-0.677	2.169	-0.058	1.987	1.137	1.306	2.169	-0.677	0.981
237L	0.939	-0.402	2.403	-0.290	2.306	1.742	1.265	2.403	-0.402	1.137
238Y	-0.054	0.377	1.973	-0.637	1.686	1.172	1.222	1.973	-0.637	0.820
239P	-0.117	0.459	2.206	-1.162	2.005	1.777	1.180	2.206	-1.162	0.907
240R	-0.256	0.005	2.262	-1.769	2.050	1.888	1.163	2.262	-1.769	0.763
241W	-0.180	-0.200	2.206	-2.269	2.023	1.884	1.050	2.206	-2.269	0.645
242R	-0.294	0.303	1.832	-2.627	1.777	1.866	1.306	1.866	-2.627	0.595
243E	0.016	0.099	1.889	-2.381	1.813	1.888	0.973	1.889	-2.381	0.614
244I	-0.117	-0.476	1.459	-1.728	1.339	1.263	-0.036	1.459	-1.728	0.243
245V	0.958	-0.152	1.739	-0.354	1.631	1.279	-0.171	1.739	-0.354	0.704
246N	0.825	0.035	1.309	0.703	1.157	0.654	-1.180	1.309	-1.180	0.500
247A	0.465	-0.779	0.982	1.303	0.793	0.054	-2.164	1.303	-2.164	0.093
248N	1.103	-0.288	1.281	1.344	0.984	0.672	-2.218	1.344	-2.218	0.411
249A	0.756	-0.084	1.318	0.973	1.002	0.676	-2.372	1.318	-2.372	0.324
250A	0.692	-0.084	1.346	0.496	1.066	0.678	-2.096	1.346	-2.096	0.300
251H	0.825	0.730	1.776	0.231	1.540	1.303	-1.087	1.776	-1.087	0.760
252L	0.515	0.544	1.477	-0.377	1.230	1.262	-1.984	1.477	-1.984	0.381
253Q	0.648	1.107	1.907	-1.074	1.704	1.887	-0.975	1.907	-1.074	0.744
254R	0.281	0.501	1.786	-1.681	1.695	1.888	0.624	1.888	-1.681	0.728
255A	0.281	0.047	1.870	-2.117	1.795	1.288	0.577	1.870	-2.117	0.534
256R	0.598	-0.278	1.945	-2.059	1.832	1.299	0.087	1.945	-2.059	0.489
257V	0.351	-1.416	1.860	-1.733	1.731	1.276	0.143	1.860	-1.733	0.316
258P	-0.420	-1.320	1.290	-1.521	1.239	0.653	0.466	1.290	-1.521	0.055
259M	-1.059	-1.775	1.150	-1.535	1.221	0.655	1.798	1.798	-1.775	0.065
260P	-1.192	-0.805	0.720	-1.868	0.747	0.030	0.788	0.788	-1.868	-0.226
261I	-1.192	-0.308	0.720	-2.254	0.747	0.030	0.788	0.788	-2.254	-0.210
262I	-0.913	-0.188	0.627	-2.356	0.629	0.031	0.728	0.728	-2.356	-0.206
263A	-0.237	-0.068	0.786	-1.709	0.738	0.034	0.943	0.943	-1.709	0.070
264V	-0.951	0.746	0.459	-0.919	0.474	0.021	1.158	1.158	-0.951	0.141
265S	-1.027	1.698	0.515	-0.191	0.501	0.024	1.272	1.698	-1.027	0.399
266S	-0.256	0.932	1.085	-0.211	0.993	0.647	0.949	1.085	-0.256	0.591
267L	0.022	0.077	1.234	-0.635	1.148	0.667	2.119	2.119	-0.635	0.662
268L	0.389	0.185	1.515	-0.708	1.330	1.285	1.798	1.798	-0.708	0.828
269R	0.111	0.880	1.365	-0.336	1.175	1.265	0.628	1.365	-0.336	0.727
270S	-0.534	-0.138	1.094	0.320	1.011	1.247	1.057	1.247	-0.534	0.580
271H	0.376	-0.384	1.375	0.665	1.157	1.261	0.662	1.375	-0.384	0.730
272A	0.376	0.065	1.375	0.196	1.157	1.261	0.662	1.375	0.065	0.728
273V	0.553	0.896	1.244	-0.096	0.993	0.677	0.550	1.244	-0.096	0.688
274T	0.775	1.567	1.365	0.049	1.157	1.146	0.382	1.567	0.049	0.920
275L	1.002	0.872	1.655	0.629	1.622	1.121	0.179	1.655	0.179	1.011
276N	1.363	1.686	1.982	1.152	1.987	1.720	1.163	1.987	1.152	1.579
277D	1.015	1.652	2.019	0.842	2.005	1.724	1.009	2.019	0.842	1.467

278K	1.129	1.688	2.122	0.201	2.160	1.745	0.856	2.160	0.201	1.414
279E	2.203	1.712	2.533	-0.305	2.515	2.339	0.394	2.533	-0.305	1.627
280L	2.254	1.746	2.561	-0.375	2.570	2.898	0.481	2.898	-0.375	1.734
281N	2.033	1.776	2.440	-0.094	2.406	2.429	0.650	2.440	-0.094	1.663
282E	2.115	1.525	2.290	0.472	2.078	1.875	0.472	2.290	0.472	1.547
283E	1.040	0.950	1.898	0.876	1.668	1.280	0.749	1.898	0.749	1.209
284S	1.755	0.051	2.225	1.607	1.932	1.293	0.534	2.225	0.051	1.342
285N	1.445	-0.901	1.926	1.710	1.622	1.253	-0.363	1.926	-0.901	0.956
286F	0.446	-0.679	1.459	1.303	1.239	0.655	-0.015	1.459	-0.679	0.630
287P	-0.281	-0.679	1.010	0.167	0.866	0.057	0.600	1.010	-0.679	0.249
288A	-0.332	-1.242	1.309	-1.147	1.349	0.632	0.505	1.349	-1.242	0.153
289I	-1.356	-0.386	0.945	-2.027	0.993	0.595	0.869	0.993	-2.027	-0.052
290V	-1.356	0.513	0.926	-2.242	1.048	0.596	1.053	1.053	-2.242	0.077
291K	-1.078	1.101	0.832	-1.865	0.929	0.598	0.993	1.101	-1.865	0.216
292F	-0.717	0.173	1.160	-1.396	1.294	1.197	1.977	1.977	-1.396	0.527
293L	0.168	0.143	1.627	-0.818	1.686	1.238	1.819	1.819	-0.818	0.837
294S	0.168	1.203	1.627	-0.688	1.686	1.238	1.819	1.819	-0.688	1.007
295E	-0.774	1.161	1.094	-0.778	1.057	0.648	2.188	2.188	-0.778	0.657
296Q	0.218	0.586	1.309	-0.988	1.257	0.664	2.097	2.097	-0.988	0.735
297V	1.065	0.586	1.823	-1.093	1.722	1.284	1.661	1.823	-1.093	1.007
298L	0.787	1.257	1.674	-1.162	1.567	1.264	0.491	1.674	-1.162	0.840
299S	0.623	2.275	1.543	-1.038	1.358	0.684	0.558	2.275	-1.038	0.857
300R	0.737	1.323	1.543	-1.146	1.349	1.241	0.369	1.543	-1.146	0.774
301A	1.236	1.323	2.094	-1.359	1.832	1.864	-0.221	2.094	-1.359	0.967
302T	1.584	1.323	2.057	-1.581	1.813	1.860	-0.067	2.057	-1.581	0.998
303E	1.438	1.459	2.337	-2.001	2.132	2.465	-0.228	2.465	-2.001	1.086
304R	1.306	0.788	1.907	-2.245	1.658	1.840	-1.237	1.907	-2.245	0.574
305V	1.533	-0.230	1.898	-2.395	1.613	1.840	-0.227	1.898	-2.395	0.576
306R	0.971	0.493	1.580	-2.430	1.449	1.822	0.321	1.822	-2.430	0.601
307A	-0.104	0.255	1.169	-2.312	1.093	1.228	0.783	1.228	-2.312	0.302
308G	-0.009	-0.070	0.730	-2.183	0.574	0.603	0.784	0.784	-2.183	0.061
309V	0.718	0.117	1.178	-2.167	0.948	1.201	0.169	1.201	-2.167	0.309
310L	-0.054	1.068	0.608	-2.245	0.455	0.578	0.491	1.068	-2.245	0.129
311G	0.079	1.273	1.038	-2.418	0.929	1.203	1.501	1.501	-2.418	0.515
312E	0.130	1.137	1.197	-2.362	1.130	1.223	1.660	1.660	-2.362	0.588
313I	0.496	1.137	1.318	-2.173	1.139	1.221	0.061	1.318	-2.173	0.457
314R	1.407	1.952	1.599	-1.575	1.285	1.236	-0.333	1.952	-1.575	0.796
315S	1.540	0.934	1.935	-1.114	1.695	1.835	-0.360	1.935	-1.114	0.924
316A	1.426	0.079	1.935	-0.773	1.704	1.278	-0.170	1.935	-0.773	0.783
317T	1.350	-0.017	1.991	-0.889	1.731	1.282	-0.057	1.991	-0.889	0.770
318E	1.217	0.347	1.561	-1.104	1.257	0.657	-1.066	1.561	-1.104	0.410
319Q	0.572	-0.432	1.290	-1.550	1.093	0.639	-0.637	1.290	-1.550	0.139
320L	0.850	-0.296	1.440	-1.508	1.248	0.659	0.533	1.440	-1.508	0.418
321A	-0.060	0.764	1.160	-1.501	1.103	0.644	0.927	1.160	-1.501	0.434
322V	-0.193	1.339	0.823	-1.158	0.692	0.045	0.954	1.339	-1.158	0.357
323S	-0.161	1.231	0.646	-0.817	0.474	0.022	0.950	1.231	-0.817	0.335
324L	0.914	1.231	1.057	-0.607	0.829	0.617	0.489	1.231	-0.607	0.647
325G	0.199	1.339	0.973	-0.612	0.838	0.622	1.934	1.934	-0.612	0.756
326S	0.844	0.616	1.244	-0.534	1.002	0.640	1.505	1.505	-0.534	0.760
327E	0.199	0.369	0.973	-0.713	0.838	0.622	1.934	1.934	-0.713	0.603
328L	0.547	0.333	0.935	-0.739	0.820	0.618	2.088	2.088	-0.739	0.657
329S	0.629	0.896	1.244	-0.429	1.175	0.659	1.975	1.975	-0.429	0.878
330V	0.850	0.650	1.365	0.067	1.339	1.128	1.806	1.806	0.067	1.029
331V	0.490	0.542	1.281	0.986	1.248	0.547	2.052	2.052	0.490	1.021
332N	1.514	1.451	1.664	2.156	1.549	0.582	1.504	2.156	0.582	1.489
333D	0.522	1.381	1.431	2.626	1.403	0.567	1.779	2.626	0.522	1.387
334P	1.021	1.656	1.982	2.484	1.886	1.191	1.190	2.484	1.021	1.630
335N	1.887	1.093	2.374	1.822	2.214	1.678	0.592	2.374	0.592	1.666
336L	1.710	0.483	2.505	0.653	2.379	2.262	0.704	2.505	0.483	1.528
337R	0.496	1.543	2.150	-0.221	2.069	1.779	1.148	2.150	-0.221	1.281
338D	0.496	1.269	1.907	-0.816	1.795	1.760	-0.082	1.907	-0.816	0.904
339R	0.465	0.525	1.758	-1.171	1.640	1.739	0.191	1.758	-1.171	0.735
340L	1.679	0.287	2.113	-0.946	1.950	2.223	-0.253	2.223	-0.946	1.007
341A	0.832	1.305	1.599	-0.419	1.485	1.603	0.183	1.603	-0.419	0.941
342S	0.692	2.118	1.655	-0.030	1.531	1.714	0.165	2.118	-0.030	1.121
343D	0.692	2.094	1.655	-0.035	1.531	1.714	0.165	2.094	-0.035	1.117
344L	1.540	2.369	2.169	-0.751	1.996	2.333	-0.270	2.369	-0.751	1.341
345E	1.767	3.148	2.617	-1.703	2.634	2.928	0.805	3.148	-1.703	1.742
346R	1.622	2.573	2.898	-2.460	2.953	3.532	0.644	3.532	-2.460	1.680
347R	1.483	2.251	2.954	-2.827	2.998	3.643	0.627	3.643	-2.827	1.590
348K	2.197	1.928	3.038	-2.794	2.989	3.638	-0.818	3.638	-2.794	1.454
349R	2.083	1.097	3.038	-2.576	2.998	3.080	-0.629	3.080	-2.576	1.299
350E	2.197	0.187	2.935	-2.163	2.898	2.498	-0.465	2.935	-2.163	1.155
351A	2.064	0.103	2.505	-1.687	2.424	1.874	-1.474	2.505	-1.687	0.830
352Q	1.470	0.594	1.935	-1.334	1.777	1.280	-0.950	1.935	-1.334	0.682
353Q	1.584	0.594	1.832	-1.164	1.677	0.698	-0.786	1.832	-1.164	0.633
354A	1.470	0.103	1.832	-1.155	1.686	0.141	-0.597	1.832	-1.155	0.497
355V	1.666	-0.102	2.029	-1.025	1.841	0.161	0.454	2.029	-1.025	0.718
356Q	1.420	-0.508	1.702	-0.863	1.467	0.119	-0.719	1.702	-0.863	0.374
357Q	0.459	-0.508	1.290	-0.784	1.103	0.082	-0.447	1.290	-0.784	0.170
358T	-0.307	-0.508	1.309	-1.001	1.121	0.107	0.585	1.309	-1.001	0.187
359A	0.307	-1.095	1.758	-1.347	1.504	0.148	0.160	1.758	-1.347	0.205
360L	0.307	-1.300	1.758	-1.608	1.504	0.148	0.160	1.758	-1.608	0.138
361W	-0.307	-0.468	1.309	-1.565	1.121	0.107	0.585	1.309	-1.565	0.112
362Q	-1.217	0.574	1.029	-1.426	0.975	0.092	0.979	1.029	-1.426	0.144
363Q	-0.989	0.710	1.019	-1.367	0.929	0.092	1.990	1.990	-1.367	0.341
364V	0.225	0.045	1.375	-1.267	1.239	0.576	1.546	1.546	-1.267	0.534
365L	1.217	0.750	1.346	-1.130	1.175	0.551	1.524	1.524	-1.130	0.776
366G	0.256	1.493	0.954	-0.693	0.756	0.512	1.612	1.612	-0.693	0.699
367D	0.319	0.662	0.926	0.071	0.692	0.511	1.335	1.335	0.071	0.645
368G	1.186	0.614	1.318	0.956	1.020	0.998	0.738	1.318	0.614	0.976
369F	1.186	-0.013	1.318	1.606	1.020	0.998	0.738	1.606	-0.013	0.979
370N	1.154	0.700	1.524	1.958	1.221	1.018	0.778	1.958	0.700	1.193
371D	0.655	-0.005	1.253	1.439	0.902	0.529	-0.223	1.439	-0.223	0.650
372L	0.926	-0.005	1.533	0.827	1.267	1.018	-0.232	1.533	-0.232	0.762
373T	1.274	0.289	1.477	0.110	1.303	1.015	0.105	1.477	0.105	0.796
374A	1.464	0.337	1.449	0.022	1.312	1.464	0.209	1.464	0.022	0.894
375D	0.964	0.133	1.337	0.494	1.166	1.594	0.486	1.594	0.133	0.882
376V	2.178	0.407	1.692	1.467	1.476	2.078	0.042	2.178	0.407	1.334
377D	1.268	0.994	1.412	2.037	1.330	2.063	0.436	2.063	0.436	1.363
378H	1.401	1.269	1.842	2.158	1.804	2.688	1.445	2.688	1.269	1.801
379D	1.097	1.004	1.767	1.344	1.640	2.219	1.495	2.219	1.004	1.509
380L	1.597	1.279	2.318	0.165	2.123	2.842	0.905	2.842	0.165	1.604
381R	0.383	1.974	1.982	-0.854	1.759	2.358	1.165	2.358	-0.854	1.252
382T	0.515	1.064	2.253	-1.455	2.060	2.362	0.897	2.362	-1.455	1.100

383R	0.212	1.064	2.178	-1.489	1.895	1.893	0.947	2.178	-1.489	0.957
384F	0.560	0.826	2.141	-1.438	1.877	1.890	1.101	2.141	-1.438	0.994
385S	0.623	1.539	1.907	-1.243	1.558	1.285	1.142	1.907	-1.243	0.973
386T	0.787	0.726	2.038	-1.274	1.768	1.864	1.075	2.038	-1.274	0.998
387V	1.154	0.810	1.879	-0.890	1.613	1.729	1.067	1.879	-0.890	1.052
388T	1.868	1.720	1.945	-0.749	1.658	1.724	-0.194	1.945	-0.749	1.139
389E	2.096	1.720	1.842	-0.477	1.549	1.699	-0.220	2.096	-0.477	1.173
390D	2.033	0.820	2.075	-0.687	1.868	2.304	-0.261	2.304	-0.687	1.165
391A	2.646	0.820	2.524	-0.964	2.251	2.345	-0.687	2.646	-0.964	1.276
392E	1.812	1.676	2.188	-1.599	2.078	2.327	-0.406	2.327	-1.599	1.154
393R	1.951	1.137	2.132	-1.590	2.032	2.216	-0.388	2.216	-1.590	1.070
394Q	1.729	0.862	2.010	-1.291	1.868	1.747	-0.220	2.010	-1.291	0.958
395I	1.685	0.730	1.795	-0.319	1.777	1.765	1.413	1.795	-0.319	1.264
396D	1.824	1.545	1.739	0.775	1.731	1.654	1.430	1.824	0.775	1.529
397S	1.691	1.006	1.552	1.672	1.531	1.049	1.651	1.691	1.006	1.450
398C	1.641	0.241	1.421	1.976	1.312	1.026	1.528	1.976	0.241	1.307
399D	2.279	-0.298	1.561	1.784	1.330	1.024	0.197	2.279	-0.298	1.125
400F	1.780	-0.837	1.449	1.392	1.185	1.155	0.473	1.780	-0.837	0.942
401T	0.737	-0.621	1.318	0.849	1.048	1.161	0.335	1.318	-0.621	0.690
402A	0.781	-1.436	1.533	0.558	1.139	1.143	-1.297	1.533	-1.436	0.346
403H	0.642	-0.809	1.589	0.029	1.185	1.253	-1.314	1.589	-1.314	0.368
404W	0.003	-0.290	1.206	-0.679	0.893	1.236	-1.213	1.236	-1.213	0.165
405A	0.035	0.752	1.001	-1.568	0.692	1.216	-1.253	1.216	-1.568	0.125
406E	0.345	0.656	1.300	-1.679	1.002	1.257	-0.356	1.300	-1.679	0.361
407I	0.844	0.656	1.412	-1.197	1.148	1.126	-0.632	1.412	-1.197	0.479
408G	1.242	1.589	1.272	0.036	1.121	1.102	-0.066	1.589	-0.066	0.899
409N	1.603	0.962	1.599	0.929	1.485	1.702	0.918	1.702	0.918	1.314
410D	1.552	0.029	1.571	1.350	1.431	1.143	0.831	1.571	0.029	1.130
411V	2.191	-0.510	1.711	1.007	1.449	1.141	-0.501	2.191	-0.510	0.927
412E	1.325	0.077	1.580	0.581	1.476	1.143	-0.179	1.580	-0.179	0.857
413N	1.015	-0.498	1.281	-0.066	1.166	1.102	-1.076	1.281	-1.076	0.418
414A	0.711	-1.204	1.206	-0.637	1.002	0.633	-1.027	1.206	-1.204	0.098
415I	1.078	-0.576	1.328	-1.264	1.011	0.632	-2.625	1.328	-2.625	-0.060
416A	0.351	0.287	0.879	-1.552	0.638	0.034	-2.010	0.879	-2.010	-0.196
417T	0.269	0.896	0.571	-1.772	0.282	-0.007	-1.897	0.896	-1.897	-0.237
418A	0.768	0.231	0.842	-1.408	0.601	0.482	-0.896	0.842	-1.408	0.089
419V	1.717	0.135	1.281	-0.646	0.929	0.521	-1.331	1.717	-1.331	0.372
420G	1.002	-0.272	1.216	0.388	0.884	0.525	-0.069	1.216	-0.272	0.525
421D	0.440	-0.899	0.898	1.321	0.720	0.507	0.479	1.321	-0.899	0.495
422N	-0.325	-1.845	0.917	1.546	0.738	0.532	1.511	1.546	-1.845	0.439
423F	0.041	-1.963	1.038	0.785	0.747	0.530	-0.088	1.038	-1.963	0.156
424V	-0.439	-0.975	1.300	-0.410	1.030	0.550	0.244	1.300	-0.975	0.185
425W	-0.692	-0.023	1.356	-1.296	1.084	0.103	0.416	1.356	-1.296	0.135
426A	-0.869	1.054	1.487	-1.701	1.248	0.687	0.528	1.487	-1.701	0.348
427Y	0.123	1.054	1.702	-1.353	1.449	0.703	0.437	1.702	-1.353	0.588
428Q	0.850	1.257	2.150	-1.060	1.823	1.301	-0.178	2.150	-1.060	0.878
429R	1.616	0.766	2.132	-0.827	1.804	1.276	-1.210	2.132	-1.210	0.794
430S	0.901	0.491	2.047	-0.948	1.813	1.281	0.235	2.047	-0.948	0.832
431E	1.154	0.175	1.795	-1.276	1.576	1.262	-1.107	1.795	-1.276	0.511
432A	1.407	-0.496	1.739	-1.491	1.522	1.708	-1.280	1.739	-1.491	0.444
433L	1.774	-0.496	1.580	-1.089	1.367	1.573	-1.288	1.774	-1.288	0.489
434A	1.129	0.521	1.309	-0.474	1.203	1.554	-0.859	1.554	-0.859	0.626
435D	0.768	1.377	0.982	0.246	0.838	0.955	-1.843	1.377	-1.843	0.475
436D	0.901	0.664	1.412	0.228	1.312	1.579	-0.834	1.579	-0.834	0.752
437V	1.894	0.125	1.646	-0.203	1.458	1.594	-1.109	1.894	-1.109	0.772
438A	1.179	0.760	1.580	-0.681	1.412	1.598	0.153	1.598	-0.681	0.857
439R	0.680	0.760	1.309	-0.799	1.093	1.109	-0.849	1.309	-0.849	0.472
440S	0.680	0.574	1.309	-0.415	1.093	1.109	-0.849	1.309	-0.849	0.500
441F	1.046	-0.486	1.431	-0.063	1.103	1.108	-2.447	1.431	-2.447	0.241
442A	1.274	0.227	1.421	0.008	1.057	1.108	-1.437	1.421	-1.437	0.523
443D	0.427	1.082	0.907	-0.268	0.592	0.488	-1.001	1.082	-1.001	0.318
444A	0.648	0.447	1.029	-0.539	0.756	0.957	-1.170	1.029	-1.170	0.304
445G	1.641	0.243	1.244	-0.540	0.957	0.973	-1.261	1.641	-1.261	0.465
446L	1.274	0.471	1.122	-0.138	0.948	0.975	0.338	1.274	-0.138	0.713
447D	0.060	0.676	0.767	0.101	0.638	0.491	0.782	0.767	0.101	0.502
448S	0.338	0.712	0.917	0.310	0.793	0.511	1.951	1.951	0.310	0.790
449V	0.111	-0.348	0.926	-0.060	0.838	0.511	0.941	0.941	-0.348	0.417
450L	1.186	0.604	1.337	-0.427	1.194	1.105	0.480	1.337	-0.427	0.783
451S	-0.028	1.167	0.982	-0.912	0.884	0.622	0.924	1.167	-0.912	0.520
452A	-0.028	0.401	0.982	-1.080	0.884	0.622	0.924	0.982	-1.080	0.386
453E	0.338	0.305	1.346	-1.024	1.166	0.639	0.555	1.346	-1.024	0.475
454L	1.053	-0.384	1.589	-0.267	1.330	1.254	0.387	1.589	-0.384	0.709
455S	0.408	0.447	1.318	0.448	1.166	1.235	0.816	1.318	0.408	0.834
456P	0.010	0.083	1.309	1.033	1.212	1.252	1.771	1.771	0.010	0.953
457H	-0.123	0.263	0.973	0.722	0.802	0.653	1.798	1.798	-0.123	0.727
458V	0.787	-0.001	1.253	-0.074	0.948	0.667	1.403	1.403	-0.074	0.712
459M	1.009	0.722	1.375	-0.756	1.112	1.136	1.235	1.375	-0.756	0.833
460G	0.294	1.650	1.066	-0.661	0.793	1.122	1.266	1.650	-0.661	0.790
461T	0.522	0.818	0.898	-0.214	0.574	0.502	0.999	0.999	-0.214	0.585
462D	1.021	1.159	1.449	0.132	1.057	1.125	0.409	1.449	0.132	0.907
463F	0.705	0.620	1.375	-0.171	1.020	1.113	0.899	1.375	-0.171	0.794
464G	0.705	0.590	1.832	-1.035	1.704	1.708	0.964	1.832	-1.035	0.924
465R	0.509	0.590	1.636	-1.851	1.549	1.688	-0.087	1.688	-1.851	0.576
466L	-0.705	0.590	1.281	-2.418	1.239	1.204	0.357	1.281	-2.418	0.221
467K	0.237	0.680	1.337	-2.511	1.239	1.200	0.106	1.337	-2.511	0.327
468A	0.142	0.423	1.776	-2.477	1.759	1.825	0.105	1.825	-2.477	0.508
469L	-0.389	1.279	1.337	-2.453	1.330	1.217	0.051	1.337	-2.453	0.339
470G	0.686	2.315	1.748	-2.540	1.686	1.811	-0.410	2.315	-2.540	0.757
471R	0.737	2.046	1.449	-2.398	1.203	1.237	-0.316	2.046	-2.398	0.565
472M	0.964	1.028	1.898	-2.178	1.841	1.831	0.760	1.898	-2.178	0.878
473E	1.679	1.956	2.225	-1.514	2.105	1.845	0.545	2.225	-1.514	1.263
474S	0.737	2.194	2.150	-1.053	2.160	1.850	0.979	2.194	-1.053	1.288
475K	0.737	1.966	2.150	-0.852	2.160	1.850	0.979	2.160	-0.852	1.284
476P	1.268	1.225	2.589	-1.185	2.588	2.458	1.034	2.589	-1.185	1.425
477L	1.135	1.698	2.253	-1.650	2.178	1.858	1.060	2.253	-1.650	1.219
478R	0.857	1.788	2.262	-1.789	2.196	2.458	1.168	2.458	-1.789	1.277
479R	0.857	0.650	2.262	-1.412	2.196	2.458	1.168	2.458	-1.412	1.168
480G	0.459	-0.488	2.010	-0.901	1.968	2.456	0.893	2.456	-0.901	0.914
481H	0.534	-0.488	1.954	-0.766	1.941	2.453	0.779	2.453	-0.766	0.915
482K	-0.237	-0.693	1.384	-1.323	1.449	1.830	1.102	1.830	-1.323	0.502
483M	-0.142	-0.711	0.945	-2.238	0.929	1.205	1.103	1.205	-2.238	0.156
484I	-0.768	0.031	0.945	-2.913	1.020	1.222	1.047	1.222	-2.913	0.084
485I	-0.635	1.211	1.216	-3.251	1.321	1.227	0.779	1.321	-3.251	0.267
486G	-0.635	1.129	0.758	-3.056	0.638	0.632	0.714	1.129	-3.056	0.026
487M	0.041	1.129	0.917	-2.554	0.747	0.635	0.930	1.129	-2.554	0.264

488R	0.427	1.870	1.309	-1.948	1.002	0.653	0.940	1.870	-1.948	0.608
489G	1.293	0.960	1.440	-1.184	0.975	0.651	0.619	1.440	-1.184	0.679
490S	1.293	0.237	1.440	-0.734	0.975	0.651	0.619	1.440	-0.734	0.640
491Y	1.325	-0.733	1.328	-0.686	0.920	0.635	1.262	1.328	-0.733	0.579
492G	0.825	-0.651	0.776	-1.082	0.437	0.012	1.852	1.852	-1.082	0.310
493G	0.199	-0.651	0.776	-1.627	0.528	0.030	1.797	1.797	-1.627	0.150
494V	-0.717	-1.392	0.487	-2.237	0.355	0.011	1.958	1.958	-2.237	-0.219
495V	-0.237	-1.500	0.225	-2.599	0.073	-0.008	1.627	1.627	-2.599	-0.346
496M	-0.863	-0.548	0.225	-2.902	0.164	0.009	1.571	1.571	-2.902	-0.335
497I	-1.805	0.421	0.150	-3.004	0.218	0.015	2.006	2.006	-3.004	-0.286
498G	-1.160	0.650	0.421	-2.689	0.382	0.033	1.577	1.577	-2.689	-0.112
499M	-0.515	-0.074	0.692	-1.966	0.547	0.052	1.148	1.148	-1.966	-0.017
500L	-0.484	0.668	0.580	-1.048	0.492	0.036	1.792	1.792	-1.048	0.291
501S	-0.212	0.668	0.599	-0.269	0.501	0.036	2.059	2.059	-0.269	0.483
502S	-0.212	0.439	0.599	-0.136	0.501	0.036	2.059	2.059	-0.212	0.469
503V	-0.528	-0.621	0.524	-0.602	0.465	0.024	2.549	2.549	-0.621	0.259
504V	0.414	-0.699	0.599	-1.269	0.410	0.019	2.114	2.114	-1.269	0.227
505G	-0.578	0.007	0.365	-1.857	0.264	0.004	2.390	2.390	-1.857	0.085
506L	-1.571	-0.262	0.150	-2.006	0.063	-0.012	2.481	2.481	-2.006	-0.165
507G	-0.894	-0.262	0.571	-1.438	0.382	0.027	1.779	1.779	-1.438	0.024
508L	-0.528	-0.034	0.935	-0.525	0.665	0.044	1.410	1.410	-0.528	0.281
509F	-1.470	0.075	0.860	0.456	0.720	0.050	1.845	1.845	-1.470	0.362
510N	-0.477	0.876	1.094	1.216	0.866	0.065	1.570	1.570	-0.477	0.744
511P	-1.072	0.267	0.982	1.120	0.902	0.066	2.158	2.158	-1.072	0.632
512L	-0.129	0.536	1.057	0.574	0.847	0.061	1.724	1.724	-0.129	0.667
513S	0.585	0.536	1.122	-0.193	0.893	0.056	0.462	1.122	-0.193	0.495
514V	0.503	-0.645	0.814	-0.917	0.537	0.016	0.576	0.814	-0.917	0.126
515G	-0.212	-0.753	0.487	-1.457	0.273	0.002	0.791	0.791	-1.457	-0.124
516A	-0.136	-0.753	0.431	-1.834	0.246	-0.001	0.677	0.677	-1.834	-0.196
517G	-1.128	0.061	0.197	-2.303	0.100	-0.016	0.953	0.953	-2.303	-0.305
518L	-0.534	-0.681	0.309	-2.516	0.063	-0.018	0.364	0.364	-2.516	-0.430
519I	-0.629	-0.476	0.748	-2.683	0.583	0.607	0.363	0.748	-2.683	-0.212
520L	-1.027	-0.558	0.739	-2.726	0.629	0.624	1.318	1.318	-2.726	-0.143
521G	-1.255	0.477	0.748	-2.718	0.674	0.624	0.308	0.748	-2.718	-0.163
522R	-0.793	0.425	1.085	-2.658	0.902	0.638	0.205	1.085	-2.658	-0.028
523M	0.073	0.151	1.674	-2.566	1.558	1.231	-0.052	1.674	-2.566	0.295
524A	1.148	1.097	2.085	-2.410	1.914	1.825	-0.513	2.085	-2.410	0.735
525Y	1.420	1.587	2.365	-1.982	2.278	2.314	-0.523	2.365	-1.982	1.066
526K	1.514	2.603	2.384	-1.586	2.442	2.284	-0.457	2.603	-1.586	1.312
527E	2.159	2.585	2.720	-1.032	2.770	2.309	-0.238	2.770	-1.032	1.611
528D	2.469	1.806	3.019	-0.310	3.080	2.350	0.659	3.080	-0.310	1.868
529K	2.855	1.062	3.197	0.190	3.317	2.955	0.326	3.317	0.190	1.986
530Q	1.913	1.044	2.664	0.517	2.688	2.366	0.696	2.688	0.517	1.698
531N	0.838	0.457	2.253	0.307	2.333	1.772	1.157	2.333	0.307	1.303
532R	0.471	0.662	2.412	-0.563	2.488	1.908	1.165	2.488	-0.563	1.220
533L	-0.123	0.704	1.842	-1.508	1.841	1.315	1.689	1.842	-1.508	0.823
534L	-0.237	1.483	1.945	-2.234	1.941	1.897	1.525	1.945	-2.234	0.903
535R	-0.269	1.688	1.795	-2.414	1.786	1.876	1.798	1.876	-2.414	0.894
536V	-0.041	1.706	1.692	-2.040	1.677	1.851	1.772	1.851	-2.040	0.945
537R	0.673	1.802	1.776	-1.530	1.668	1.846	0.327	1.846	-1.530	0.937
538S	1.616	1.597	2.309	-1.317	2.296	2.435	-0.043	2.435	-1.317	1.271
539E	1.483	0.646	1.879	-1.407	1.823	1.810	-1.052	1.879	-1.407	0.740
540A	2.159	0.884	2.300	-1.347	2.142	1.849	-1.754	2.300	-1.754	0.890
541K	1.660	1.698	1.748	-1.056	1.658	1.226	-1.164	1.748	-1.164	0.824
542A	1.514	0.692	2.029	-0.578	1.977	1.831	-1.325	2.029	-1.325	0.877
543N	1.287	0.596	2.132	-0.330	2.087	1.856	-1.299	2.132	-1.299	0.904
544V	0.572	0.525	2.066	-0.576	2.041	1.860	-0.038	2.066	-0.576	0.922
545R	-0.022	1.161	1.496	-1.249	1.394	1.267	0.486	1.496	-1.249	0.647
546R	0.477	0.023	1.767	-1.315	1.713	1.756	1.487	1.767	-1.315	0.844
547F	0.667	0.065	1.739	-0.951	1.722	2.204	1.591	2.204	-0.951	1.005
548V	0.395	0.065	1.720	-0.140	1.713	2.205	1.324	2.205	-0.140	1.040
549D	0.541	0.065	1.440	0.588	1.394	1.600	1.484	1.600	0.065	1.016
550D	-0.307	-0.570	0.945	0.787	0.875	0.980	1.736	1.736	-0.570	0.635
551I	0.041	-0.254	0.889	0.514	0.911	0.977	2.074	2.074	-0.254	0.736
552S	0.041	0.902	0.889	0.066	0.911	0.977	2.074	2.074	0.041	0.837
553F	-0.180	0.538	0.767	-0.289	0.747	0.508	2.243	2.243	-0.289	0.619
554V	-0.452	1.567	0.945	-0.703	1.066	0.614	2.317	2.317	-0.703	0.765
555V	0.433	2.477	1.412	-0.627	1.458	0.654	2.158	2.477	-0.627	1.138
556S	0.433	3.112	1.412	-0.521	1.458	0.654	2.158	3.112	-0.521	1.244
557K	1.280	3.070	1.907	-0.355	1.977	1.275	1.906	3.070	-0.355	1.580
558Q	2.147	2.034	2.300	-0.008	2.306	1.762	1.309	2.306	-0.008	1.693
559S	2.646	2.375	2.851	0.072	2.789	2.385	0.719	2.851	0.072	1.977
560R	1.653	1.405	2.617	-0.113	2.643	2.371	0.994	2.643	-0.113	1.653
561D	1.653	0.267	2.617	-0.565	2.643	2.371	0.994	2.643	-0.565	1.426
562R	1.009	0.219	2.281	-1.300	2.315	2.345	0.776	2.345	-1.300	1.092
563L	0.092	0.219	1.991	-2.233	2.142	2.327	0.938	2.327	-2.233	0.782
564K	0.206	0.219	1.889	-2.619	2.041	1.745	1.102	2.041	-2.619	0.655
565M	-0.161	-0.817	2.047	-2.913	2.196	1.881	1.110	2.196	-2.913	0.478
566I	-1.008	0.111	1.533	-2.688	1.731	1.261	1.546	1.731	-2.688	0.355
567Q	-1.008	0.974	1.533	-2.493	1.731	1.261	1.546	1.731	-2.493	0.506
568R	-1.103	0.574	1.515	-2.425	1.567	1.291	1.480	1.567	-2.425	0.414
569L	-0.205	-0.647	1.795	-2.192	1.841	1.763	1.526	1.841	-2.192	0.554
570L	0.433	0.371	2.094	-1.455	2.032	2.381	1.472	2.381	-1.455	1.047
571R	-0.066	1.151	2.019	-0.436	1.895	2.358	1.640	2.358	-0.436	1.223
572D	-0.066	0.013	2.019	0.588	1.895	2.358	1.640	2.358	-0.066	1.207
573H	1.009	-0.526	2.431	0.817	2.251	2.952	1.179	2.952	-0.526	1.445
574Y	1.084	-0.042	2.374	0.019	2.224	2.949	1.066	2.949	-0.042	1.382
575R	0.952	0.940	1.945	-1.165	1.750	2.324	0.057	2.324	-1.165	0.972
576E	0.813	-0.198	2.001	-2.213	1.795	2.435	0.039	2.435	-2.213	0.667
577I	1.173	-0.282	2.169	-2.714	1.987	2.414	-0.254	2.414	-2.714	0.642
578A	0.787	0.856	1.776	-2.779	1.731	2.397	-0.265	2.397	-2.779	0.643
579E	0.850	1.712	1.543	-2.582	1.412	1.792	-0.223	1.792	-2.582	0.643
580E	0.623	0.932	1.646	-2.488	1.522	1.817	-0.198	1.817	-2.488	0.551
581I	1.540	0.848	1.935	-1.993	1.695	1.835	-0.360	1.935	-1.993	0.786
582T	0.825	1.748	1.851	-1.594	1.704	1.841	1.086	1.851	-1.594	1.066
583R	0.661	2.112	1.720	-0.996	1.494	1.261	1.153	2.112	-0.996	1.058
584S	0.661	1.095	1.720	-0.797	1.494	1.261	1.153	1.720	-0.797	0.941
585L	1.578	0.730	2.010	-0.511	1.668	1.279	0.991	2.010	-0.511	1.106
586T	0.667	0.934	1.730	-0.653	1.522	1.265	1.385	1.730	-0.653	0.979
587E	0.781	0.934	1.627	-0.469	1.422	0.683	1.549	1.627	-0.469	0.932
588S	0.503	0.035	1.477	-0.653	1.267	0.663	0.379	1.477	-0.653	0.524
589L	1.413	-0.821	1.758	-0.624	1.412	0.677	-0.015	1.758	-0.821	0.543
590Q	0.579	-0.617	1.421	-1.012	1.239	0.659	0.266	1.421	-1.012	0.362
591A	0.218	-1.107	1.094	-1.237	0.875	0.059	-0.718	1.094	-1.237	-0.117
592T	-0.060	-0.617	0.945	-1.717	0.720	0.039	-1.888	0.945	-1.888	-0.368

593I	0.655	-1.204	1.029	-1.961	0.711	0.034	-3.333	1.029	-3.333	-0.581
594A	0.655	-0.879	1.029	-2.119	0.711	0.034	-3.333	1.029	-3.333	-0.558
595A	0.288	-0.304	0.907	-2.001	0.701	0.036	-1.734	0.907	-2.001	-0.301
596A	0.092	0.187	0.711	-1.849	0.547	0.016	-2.785	0.711	-2.785	-0.440
597Q	1.091	0.762	1.178	-1.712	0.929	0.613	-3.133	1.178	-3.133	-0.039
598V	1.287	1.084	1.375	-1.667	1.084	0.633	-2.082	1.375	-2.082	0.245
599A	1.647	1.720	1.702	-1.725	1.449	1.233	-1.098	1.720	-1.725	0.704
600E	1.780	<u>2.329</u>	<u>2.132</u>	-1.712	1.923	<u>1.858</u>	-0.089	2.329	-1.712	1.174
601T	<u>2.033</u>	<u>2.567</u>	<u>2.075</u>	-1.504	1.868	<u>2.304</u>	-0.261	2.567	-1.504	1.297
602E	<u>2.709</u>	1.752	<u>2.496</u>	-0.799	2.187	<u>2.343</u>	-0.963	2.709	-0.963	1.389
603R	<u>2.842</u>	1.990	<u>2.926</u>	-0.002	<u>2.661</u>	<u>2.968</u>	0.046	2.968	-0.002	1.919
604D	1.843	1.752	<u>2.459</u>	0.697	2.278	<u>2.370</u>	0.394	2.459	0.394	1.685
605N	1.780	1.008	<u>2.692</u>	0.531	<u>2.597</u>	<u>2.975</u>	0.353	2.975	0.353	1.705
606R	1.780	0.890	<u>2.692</u>	-0.409	<u>2.597</u>	<u>2.975</u>	0.353	2.975	-0.409	1.554
607I	0.933	0.890	<u>2.178</u>	-1.626	2.132	<u>2.355</u>	0.788	2.355	-1.626	1.093
608R	0.680	1.706	<u>2.234</u>	-2.340	2.187	<u>1.909</u>	0.961	2.234	-2.340	1.048
609E	0.503	0.688	<u>2.365</u>	-2.547	<u>2.351</u>	<u>2.493</u>	1.073	2.493	-2.547	0.989
610L	0.617	0.740	<u>2.262</u>	-2.090	2.251	<u>1.911</u>	1.237	2.262	-2.090	0.990
611Q	0.541	0.620	<u>2.318</u>	-1.801	2.278	<u>1.914</u>	1.350	2.318	-1.801	1.032
612R	0.636	-0.076	1.879	-1.611	1.759	1.290	1.351	1.879	-1.611	0.747
613Q	-0.363	-0.034	1.412	-1.747	1.376	0.692	1.699	1.699	-1.747	0.434
614L	-0.363	-0.034	1.412	-1.955	1.376	0.692	1.699	1.699	-1.955	0.404
615G	-0.332	0.075	1.234	-2.073	1.157	0.670	1.696	1.696	-2.073	0.347
616I	-0.218	0.057	1.132	-1.807	1.057	0.087	1.860	1.860	-1.807	0.310
617L	-0.831	0.920	0.683	-1.343	0.674	0.046	<u>2.286</u>	2.286	-1.343	0.348
618S	0.193	1.734	1.066	-0.387	0.975	0.082	1.738	1.738	-0.387	0.771
619Q	0.465	0.674	1.346	0.504	1.339	0.571	1.728	1.728	0.465	0.947
620V	1.413	0.183	1.786	1.721	1.668	0.609	1.294	1.786	0.183	1.239
621N	1.413	0.906	1.786	<u>2.559</u>	1.668	0.609	1.294	2.559	0.609	1.462
622D	1.135	0.093	1.636	<u>2.786</u>	1.513	0.589	0.124	2.786	0.093	1.125
623N	1.116	0.129	1.300	2.014	1.093	0.547	-0.039	2.014	-0.039	0.880
624L	0.768	-0.122	1.337	0.679	1.112	0.551	-0.193	1.337	-0.193	0.590
625A	0.819	0.574	1.365	-0.892	1.166	1.110	-0.106	1.365	-0.892	0.576
626G	0.319	0.369	1.337	-1.582	1.121	0.640	0.123	1.337	-1.582	0.332
627L	0.206	0.233	1.234	-1.733	0.966	0.619	0.276	1.234	-1.733	0.257
628E	0.206	0.796	1.234	-1.331	0.966	0.619	0.276	1.234	-1.331	0.395
629P	0.402	1.034	1.431	-0.897	1.121	0.639	1.327	1.431	-0.897	0.722
630T	0.174	0.676	1.683	-0.604	1.440	0.658	1.547	1.683	-0.604	0.796
631L	1.021	1.040	<u>2.197</u>	-0.558	1.905	1.277	1.111	2.197	-0.558	1.142
632T	0.661	1.040	1.870	-0.641	1.540	0.678	0.127	1.870	-0.641	0.754
633P	0.939	1.177	1.776	-0.714	1.422	0.679	0.067	1.776	-0.714	0.764
634R	0.029	1.631	1.496	-0.868	1.276	0.664	0.461	1.631	-0.868	0.670
635A	0.971	0.818	1.571	-0.837	1.221	0.659	0.027	1.571	-0.837	0.633
636S	0.907	1.072	1.804	-1.003	1.540	1.264	-0.015	1.804	-1.003	0.796
637L	0.907	0.471	1.561	-1.307	1.267	1.245	-1.245	1.561	-1.307	0.414
638G	0.642	0.930	0.674	-1.624	1.112	0.680	-2.254	1.112	-2.254	0.023
639R	0.509	0.558	0.216	-1.727	1.431	0.740	-2.254	1.431	-2.254	-0.075
640A	0.098	-0.001	-0.392	-1.608	1.595	0.780	-3.424	1.595	-3.424	-0.422

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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 MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI
Hydrophilicity	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAA <u>RVGDDEATVVI</u> TVVSYSAQPSARLVLAAGPDGTTAAVI
Flexibility	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI
Accessibility	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI
Turns	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI
Exposed Surface	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI
Polarity	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAA <u>RVGDDEATVVI</u> TVVSYSAQPSARLVLAAGPDGTTAAVI
Antigenic Propensity	¹ MVPAGLCAYRDLRRKRARKWGD <u>TVTPQDDPRRVGV</u> I ¹ VELIDHTIAIAKLNERGDLVQRLTRARQRITDPQVRVVIAGLLKQKGSQLLNSLLNLPAARVGDDEATVVI ¹ TVVSYSAQPSARLVLAAGPDGTTAAVI

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