

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

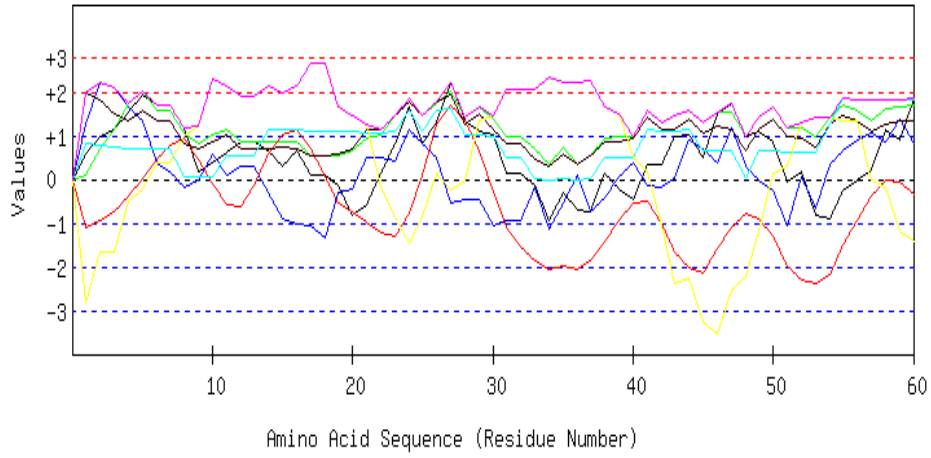
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DL DQLNAARPFVKAAYRIGVQVDIGRGRVARAIRTATSGRPGGVYLDIPGDVLGQAVEASAASG  
AIWRPVDPAPRLLPAPEAIDRALDVLAQAQRPLLVL SKGAAYA QADNVIREFVEHTGIPFLPMS  
MAKGLLPDSHPQSAAAARSLAMARADVLLVGARLNWLLGNGESPQWSADAKFIQVDIEAS  
EFDSNRPIVAPLTGDIGSVMSALLEAAADRSSVASAAWTGELADRKARNSAKMRRRLADDHHP  
MRFYNALGAIRSVLQRNPDVYVVNEGANALDLARNIIDMHLPRHRLDSGTWGVMGIGMGYA  
IAAAVETGRPVAIEGDSAFGFSGMEFETICRYRLPVTVVILNNGGVYRGDEATIFRSAAPVWR  
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Length=582

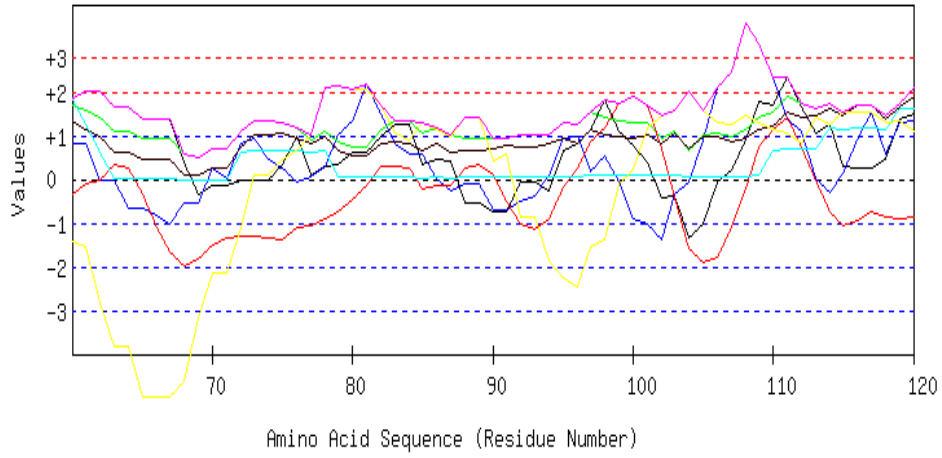
## **GRAPHICAL RESULT**

GRAPHICAL RESULT :: SEQ 1 to 60



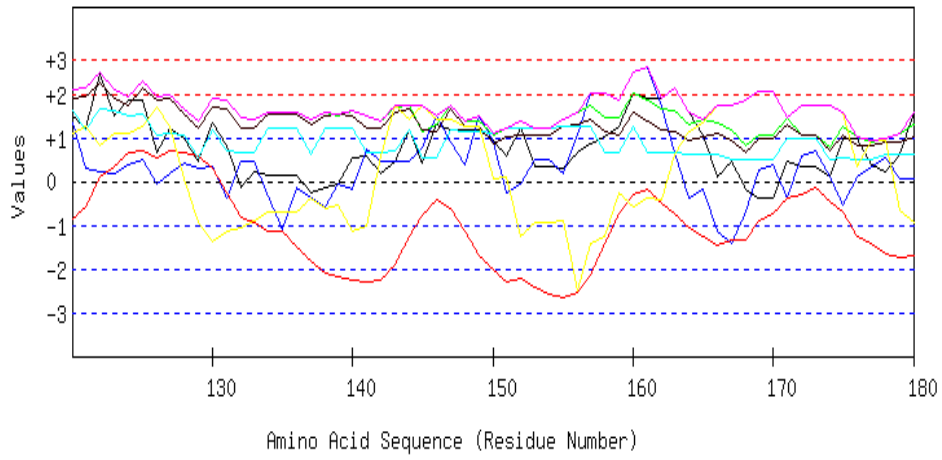
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 61 to 120



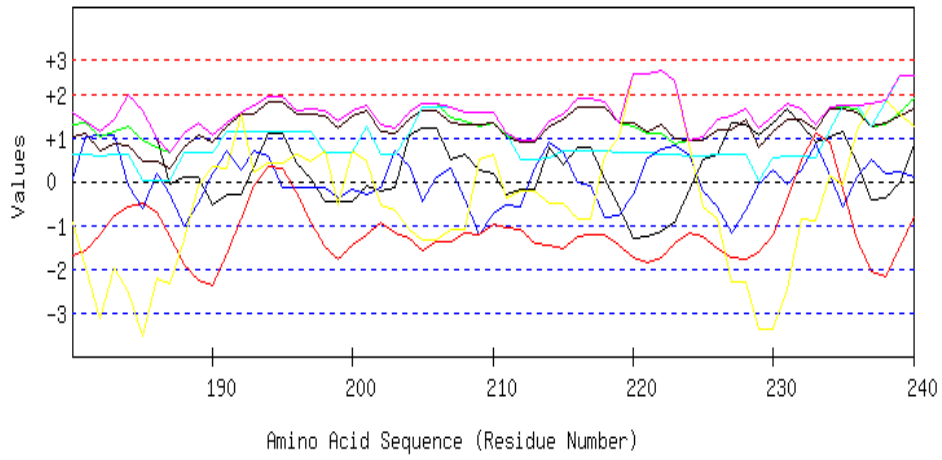
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180



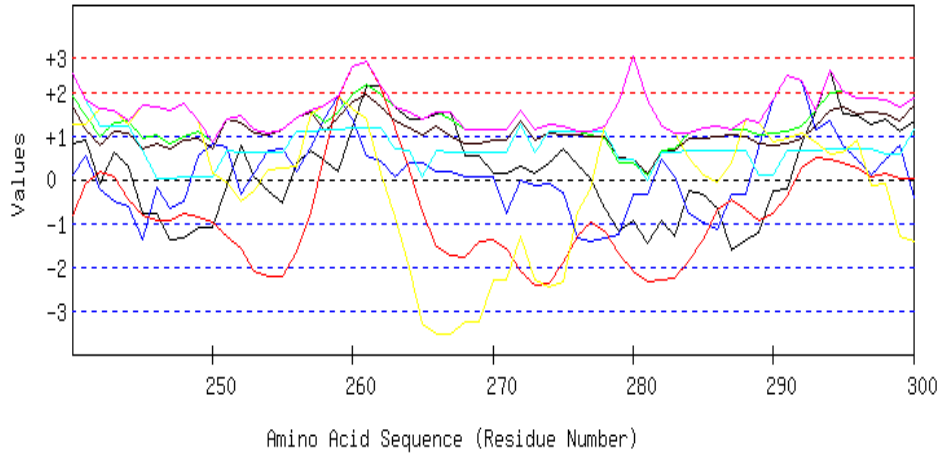
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



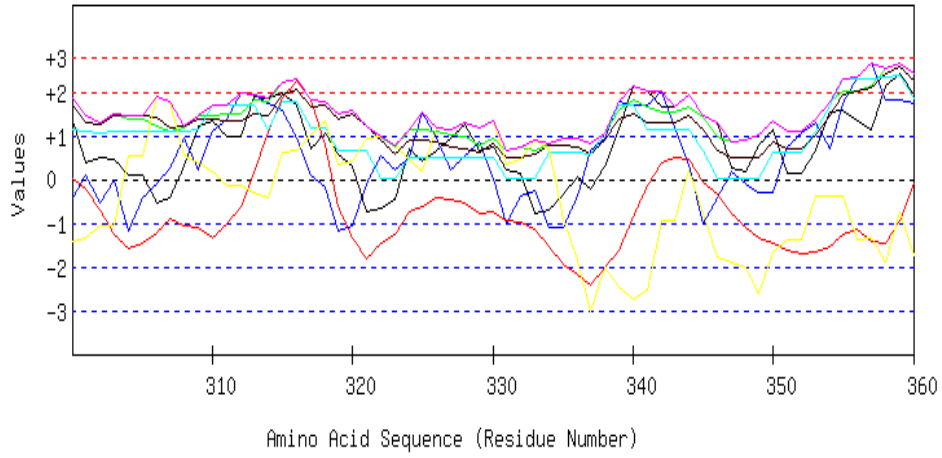
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



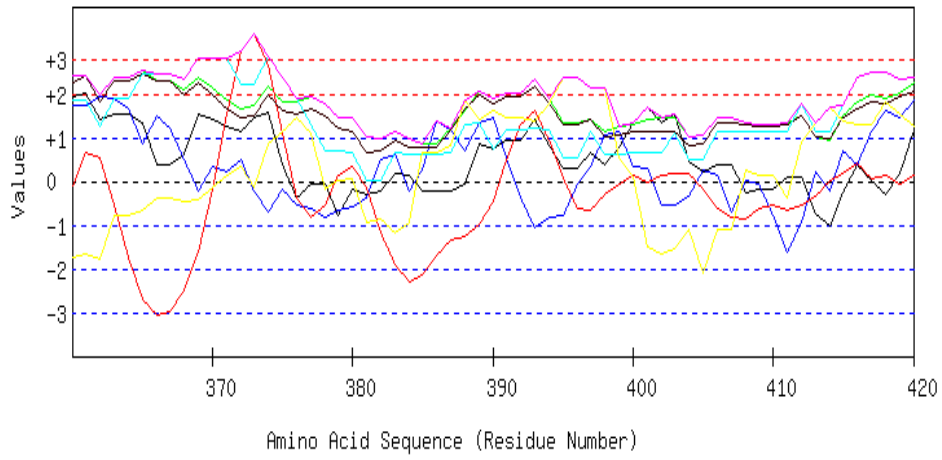
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

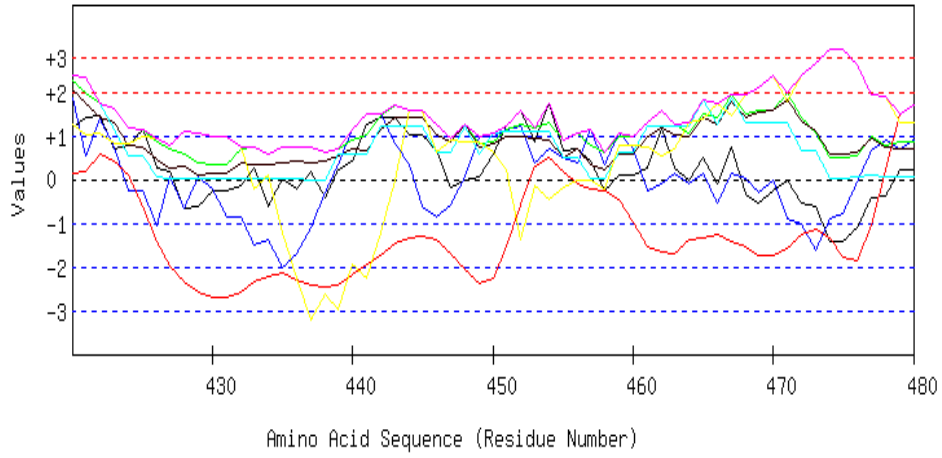
GRAPHICAL RESULT :: SEQ 361 to 420



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

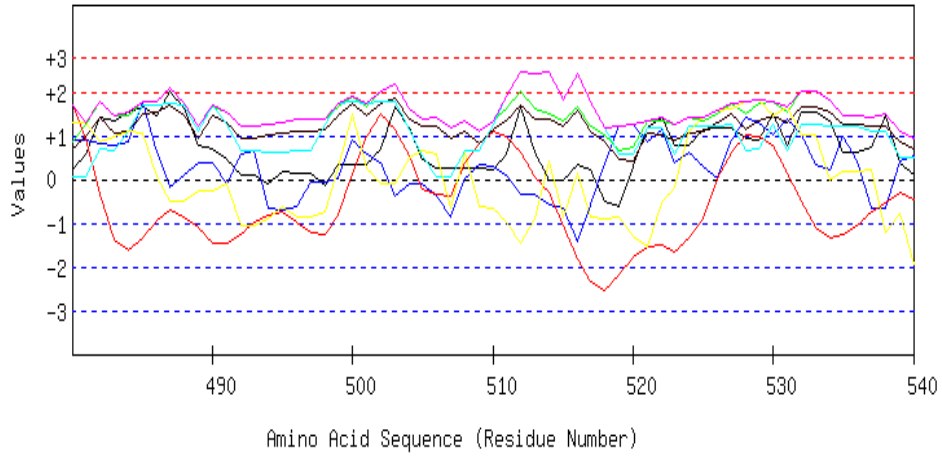


GRAPHICAL RESULT :: SEQ 421 to 480



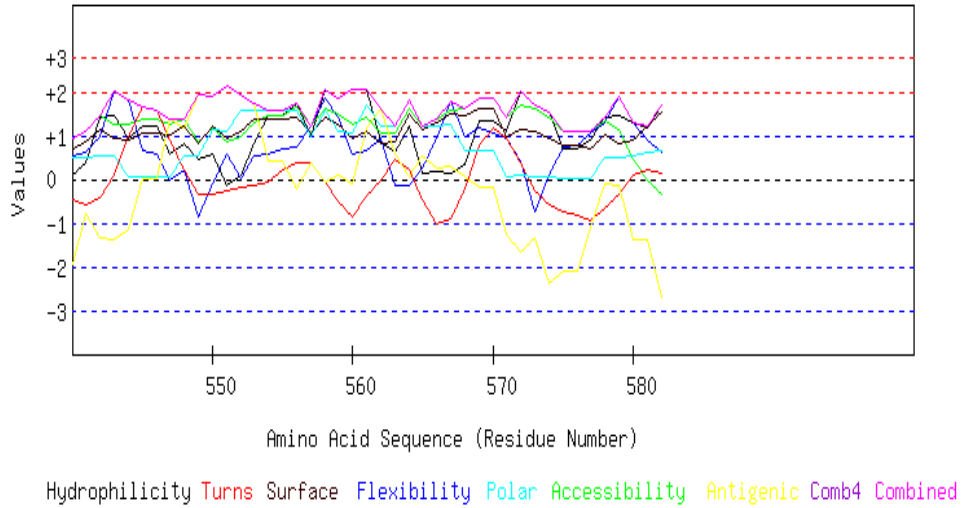
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



[TOP](#)

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## 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

```
MTTRSASPCTVLTGDGCHLVVDALKANDVDTIYGVVGIPIITDLARAAQASGIRYIGFRHEA
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GDYQDLLDQLNAARPFVKAAYRIGQVQDIGRGVARAIRTATSGRPGGVYLDIPGDVLGQAV
EASAASGAIWRPVD PAPRLLPAPEAIDRALDVLAQAQRPLLVLVSKGAAYAQADNVIREFV
EHTGIPFLPMSMAKGLLPD SHPQSAAAARSLAMARADVLLV GARLNWLLNGESPQWSA
DAKFIQVDIEASEFDSNRPIVAPLTGDIGSVMSALLEAAADRSSVASAAWTGELADRKAR
NSAKMRRRLADDHHPMRFYNALGAIRSVLQRNPDVYVVNEGANALDLARNI IDMHLP RHR
LDSGTWGVMGIGMGYAIAAAVETGRP VVAIEGDSAFGFSGMEFETICRYRLPVTVVILNN
GGVYRGDEATI FRSAAPVWRHDPAPT VLN AHARHELIAEAFGGKGYHVSTPTELESALTD
ALASNGPSLIDCELPADGVESGHLAKLNTTSAATPAISGDG
```

Length=582



27 D	2.216	-0.532	2.010	1.703	1.932	1.604	-0.265	2.216
-0.532	1.238							
28 V	1.350	-0.444	1.421	1.351	1.276	1.012	-0.008	1.421
-0.444	0.851							
29 D	1.097	-0.444	1.674	0.651	1.513	1.031	1.334	1.674
-0.444	0.979							
30 T	1.015	-1.079	1.365	-0.319	1.157	0.990	1.447	1.447
-1.079	0.654							
31 I	0.149	-0.943	0.973	-1.104	0.829	0.503	2.045	2.045
-1.104	0.350							
32 Y	0.149	-0.943	0.973	-1.544	0.829	0.503	2.045	2.045
-1.544	0.287							
33 G	-0.123	-0.178	0.692	-1.861	0.465	0.014	2.054	2.054
-1.861	0.152							
34 V	-0.958	-1.129	0.356	-2.066	0.291	-0.004	2.335	2.335
-2.066	-0.168							
35 V	-0.319	-0.542	0.739	-1.981	0.583	0.013	2.234	2.234
-1.981	0.104							
36 G	-0.705	0.093	0.346	-2.076	0.328	-0.004	2.223	2.223
-2.076	0.029							
37 I	-0.736	-0.739	0.552	-1.860	0.528	0.015	2.264	2.264
-1.860	0.004							
38 P	0.130	-0.414	0.945	-1.422	0.856	0.503	1.666	1.666
-1.422	0.323							
39 I	-0.218	0.041	0.982	-0.921	0.875	0.507	1.512	1.512
-0.921	0.397							
40 T	-0.446	0.365	0.991	-0.540	0.920	0.507	0.502	0.991
-0.540	0.329							
41 D	0.326	-0.126	1.561	-0.501	1.412	1.130	0.179	1.561
-0.501	0.569							
42 L	0.326	-0.174	1.318	-1.034	1.139	1.111	-1.051	1.318
-1.051	0.234							
43 A	0.964	0.031	1.459	-1.642	1.157	1.109	-2.383	1.459
-2.383	0.099							
44 R	1.015	0.886	1.589	-2.011	1.376	1.131	-2.260	1.589
-2.260	0.247							
45 A	0.515	0.700	1.318	-2.122	1.057	0.642	-3.261	1.318
-3.261	-0.164							
46 A	1.508	0.375	1.552	-1.581	1.203	0.657	-3.536	1.552
-3.536	0.025							
47 Q	1.736	1.189	1.543	-1.111	1.157	0.657	-2.526	1.736
-2.526	0.378							
48 A	0.964	0.291	0.973	-0.764	0.665	0.034	-2.203	0.973
-2.203	-0.006							
49 S	1.097	-0.034	1.403	-0.888	1.139	0.659	-1.194	1.403
-1.194	0.312							
50 G	0.844	-0.262	1.655	-1.298	1.376	0.678	0.148	1.655
-1.298	0.449							
51 I	-0.041	-1.063	1.188	-1.992	0.984	0.638	0.306	1.188
-1.992	0.003							
52 R	0.187	0.075	1.178	-2.309	0.938	0.638	1.317	1.317
-2.309	0.289							
53 Y	-0.806	-0.649	0.963	-2.389	0.738	0.622	1.408	1.408
-2.389	-0.016							
54 I	-0.901	0.333	1.403	-2.182	1.257	1.246	1.407	1.407
-2.182	0.366							
55 G	-0.262	0.658	1.702	-1.508	1.449	1.864	1.353	1.864
-1.508	0.751							
56 F	-0.035	0.886	1.599	-0.926	1.339	1.839	1.327	1.839



86 G	0.465	0.007	1.169	-0.155	0.811	0.059	1.135	1.169
-0.155	0.499							
87 F	0.414	-0.262	1.010	-0.134	0.610	0.039	0.976	1.010
-0.262	0.379							
88 L	-0.528	-0.088	0.935	0.247	0.665	0.044	1.410	1.410
-0.528	0.384							
89 N	-0.528	-0.088	0.935	0.333	0.665	0.044	1.410	1.410
-0.528	0.396							
90 G	-0.755	-0.697	0.945	0.106	0.711	0.044	0.400	0.945
-0.755	0.108							
91 L	-0.755	-0.715	0.926	-0.513	0.765	0.046	0.584	0.926
-0.755	0.048							
92 P	-0.041	-0.510	1.010	-1.011	0.756	0.040	-0.861	1.010
-1.011	-0.088							
93 A	-0.041	-0.378	1.010	-1.155	0.756	0.040	-0.861	1.010
-1.155	-0.090							
94 L	-0.269	0.113	1.019	-0.890	0.802	0.040	-1.872	1.019
-1.872	-0.151							
95 A	0.642	0.926	1.300	-0.176	0.948	0.055	-2.266	1.300
-2.266	0.204							
96 N	0.838	0.962	1.253	0.261	0.829	0.056	-2.445	1.253
-2.445	0.251							
97 A	1.148	0.179	1.552	0.853	1.139	0.096	-1.548	1.552
-1.548	0.488							
98 T	1.818	0.538	1.421	1.184	1.039	0.109	-1.361	1.818
-1.361	0.678							
99 T	1.103	-0.068	1.356	1.737	0.993	0.113	-0.099	1.737
-0.099	0.734							
100N	0.794	-0.883	1.300	1.904	0.957	0.091	0.234	1.904
-0.883	0.628							
101C	0.395	-1.001	1.290	1.696	1.002	0.108	1.188	1.696
-1.001	0.668							
102F	-0.439	-1.362	0.954	0.695	0.829	0.090	1.469	1.469
-1.362	0.320							
103P	-0.389	-0.332	1.085	-0.423	1.048	0.113	1.592	1.592
-0.423	0.385							
104M	-1.337	-0.064	0.646	-1.589	0.720	0.074	2.027	2.027
-1.589	0.068							
105I	-1.015	0.906	1.010	-1.889	0.966	0.076	1.564	1.564
-1.889	0.231							
106Q	-0.073	2.086	1.066	-1.763	0.966	0.072	1.313	2.086
-1.763	0.524							
107I	0.206	2.451	0.973	-1.090	0.847	0.073	1.253	2.451
-1.090	0.673							
108S	0.882	3.589	1.132	-0.231	0.957	0.076	1.468	3.589
-0.231	1.125							
109G	1.799	3.092	1.421	0.737	1.130	0.094	1.306	3.092
0.094	1.369							
110S	1.685	2.351	1.524	1.148	1.230	0.677	1.142	2.351
0.677	1.394							
111S	2.324	1.399	1.907	1.422	1.522	0.694	1.040	2.324
0.694	1.473							
112S	1.647	1.082	1.748	0.755	1.412	0.691	0.825	1.748
0.691	1.166							
113R	1.053	0.023	1.636	-0.023	1.449	0.692	1.414	1.636
-0.023	0.892							
114P	1.274	-0.300	1.758	-0.734	1.613	1.161	1.245	1.758
-0.734	0.860							
115M	0.281	0.155	1.524	-1.074	1.467	1.147	1.520	1.524

-1.074	0.717							
116V	0.250	0.896	1.702	-0.957	1.686	1.169	1.524	1.702
-0.957	0.896							
117D	0.250	1.531	1.702	-0.758	1.686	1.169	1.524	1.702
-0.758	1.015							
118L	0.477	0.586	1.449	-0.868	1.367	1.150	1.304	1.449
-0.868	0.781							
119Q	1.375	1.281	1.730	-0.910	1.640	1.622	1.350	1.730
-0.910	1.155							
120R	1.489	1.329	2.103	-0.846	1.886	1.640	1.094	2.103
-0.846	1.242							
121G	1.236	0.311	2.160	-0.579	1.941	1.193	1.266	2.160
-0.579	1.075							
122D	2.450	0.223	2.515	0.085	2.251	1.677	0.822	2.515
0.085	1.432							
123Y	1.489	0.175	2.103	0.349	1.886	1.640	1.094	2.103
0.175	1.248							
124Q	1.856	0.377	1.945	0.658	1.731	1.504	1.086	1.945
0.377	1.308							
125D	1.875	0.495	2.281	0.712	2.151	1.546	1.249	2.281
0.495	1.473							
126L	0.661	-0.044	1.926	0.549	1.841	1.063	1.693	1.926
-0.044	1.098							
127D	1.224	0.161	1.973	0.683	1.914	1.084	1.247	1.973
0.161	1.184							
128Q	0.977	0.435	1.646	0.656	1.540	1.042	0.074	1.646
0.074	0.910							
129L	0.477	0.303	1.375	0.568	1.221	0.553	-0.927	1.375
-0.927	0.510							
130N	1.325	0.333	1.889	0.304	1.686	1.172	-1.363	1.889
-1.363	0.764							
131A	0.825	-0.372	1.860	-0.250	1.640	0.702	-1.134	1.860
-1.134	0.467							
132A	-0.136	0.459	1.468	-0.819	1.221	0.664	-1.046	1.468
-1.046	0.259							
133R	0.212	0.459	1.431	-0.957	1.203	0.660	-0.892	1.431
-0.957	0.302							
134P	0.130	-0.354	1.580	-1.137	1.531	1.214	-0.714	1.580
-1.137	0.321							
135F	0.130	-1.119	1.580	-1.147	1.531	1.214	-0.714	1.580
-1.147	0.211							
136V	0.130	-0.132	1.580	-1.507	1.531	1.214	-0.714	1.580
-1.507	0.300							
137K	-0.256	-0.360	1.403	-1.826	1.294	0.609	-0.381	1.403
-1.826	0.069							
138A	-0.123	-0.564	1.589	-2.093	1.494	1.214	-0.602	1.589
-2.093	0.131							
139A	-0.047	-0.074	1.515	-2.200	1.522	1.212	-0.532	1.522
-2.200	0.199							
140Y	0.547	-0.170	1.627	-2.267	1.485	1.210	-1.120	1.627
-2.267	0.188							
141R	0.566	0.728	1.505	-2.293	1.221	0.658	-1.022	1.505
-2.293	0.195							
142I	0.199	0.453	1.384	-2.241	1.212	0.660	0.577	1.384
-2.241	0.321							
143G	0.446	0.453	1.711	-1.886	1.586	0.702	1.750	1.750
-1.886	0.680							
144Q	1.198	0.453	1.730	-1.270	1.668	1.172	1.409	1.730
-1.270	0.909							



145V	0.427	0.776	1.160	-0.783	1.175	0.549	1.732	1.732
-0.783	0.719							
146Q	1.293	1.499	1.290	-0.431	1.148	0.547	1.410	1.499
-0.431	0.965							
147D	1.198	0.912	1.730	-0.628	1.668	1.172	1.409	1.730
-0.628	1.066							
148I	1.179	0.373	1.393	-1.125	1.248	1.129	1.246	1.393
-1.125	0.778							
149G	1.179	1.511	1.393	-1.706	1.248	1.129	1.246	1.511
-1.706	0.857							
150R	0.933	0.884	1.066	-2.038	0.875	1.087	0.073	1.087
-2.038	0.411							
151G	0.566	-0.254	1.225	-2.288	1.030	1.223	0.081	1.225
-2.288	0.226							
152V	1.205	-0.068	1.365	-2.238	1.048	1.221	-1.251	1.365
-2.238	0.183							
153A	0.338	0.519	1.234	-2.424	1.075	1.223	-0.929	1.234
-2.424	0.148							
154R	0.338	0.519	1.234	-2.590	1.075	1.223	-0.929	1.234
-2.590	0.124							
155A	0.307	0.197	1.440	-2.655	1.276	1.242	-0.889	1.440
-2.655	0.131							
156I	0.673	1.052	1.561	-2.546	1.285	1.241	-2.488	1.561
-2.546	0.111							
157R	0.869	2.004	1.758	-2.121	1.440	1.261	-1.437	2.004
-2.121	0.539							
158T	1.015	2.004	1.477	-1.402	1.121	0.656	-1.276	2.004
-1.402	0.514							
159A	1.242	1.872	1.468	-0.742	1.075	0.656	-0.266	1.872
-0.742	0.758							
160T	2.014	2.499	2.038	-0.314	1.567	1.279	-0.588	2.499
-0.588	1.214							
161S	1.881	2.635	1.851	-0.174	1.367	0.673	-0.368	2.635
-0.368	1.124							
162G	1.913	1.684	1.646	-0.484	1.166	0.654	-0.408	1.913
-0.484	0.881							
163R	2.140	0.650	1.636	-0.758	1.121	0.654	0.602	2.140
-0.758	0.863							
164P	1.578	-0.368	1.318	-1.043	0.957	0.635	1.150	1.578
-1.043	0.604							
165G	1.046	-0.188	1.421	-1.256	1.039	0.634	1.323	1.421
-1.256	0.574							
166G	0.104	-1.140	1.346	-1.477	1.093	0.640	1.757	1.757
-1.477	0.332							
167V	0.471	-1.408	1.188	-1.344	0.938	0.504	1.749	1.749
-1.408	0.300							
168Y	-0.167	-0.685	0.804	-1.337	0.647	0.487	1.851	1.851
-1.337	0.229							
169L	-0.395	0.261	1.057	-0.897	0.966	0.506	2.071	2.071
-0.897	0.510							
170D	-0.395	0.369	1.057	-0.726	0.966	0.506	2.071	2.071
-0.726	0.550							
171I	0.471	-0.374	1.449	-0.367	1.294	0.993	1.473	1.473
-0.374	0.706							
172P	0.357	0.578	1.075	-0.313	1.048	0.975	1.730	1.730
-0.313	0.779							
173G	0.357	0.710	1.075	-0.139	1.048	0.975	1.730	1.730
-0.139	0.822							
174D	0.085	0.083	0.795	-0.463	0.683	0.487	1.739	1.739

-0.463	0.487							
175V	0.971	-0.552	1.262	-0.712	1.075	0.527	1.580	1.580
-0.712	0.593							
176L	0.971	0.119	1.019	-1.243	0.802	0.508	0.350	1.019
-1.243	0.361							
177G	0.376	0.323	0.907	-1.421	0.838	0.510	0.939	0.939
-1.421	0.353							
178Q	0.237	0.552	0.963	-1.649	0.884	0.620	0.921	0.963
-1.649	0.361							
179A	0.604	0.061	1.085	-1.755	0.893	0.619	-0.677	1.085
-1.755	0.118							
180V	1.597	0.061	1.318	-1.708	1.039	0.633	-0.953	1.597
-1.708	0.284							
181E	1.369	1.012	1.328	-1.562	1.084	0.633	-1.963	1.369
-1.963	0.272							
182A	1.122	1.064	1.001	-1.236	0.711	0.591	-3.136	1.122
-3.136	0.017							
183S	1.401	1.064	1.150	-0.783	0.866	0.611	-1.966	1.401
-1.966	0.335							
184A	1.995	-0.116	1.262	-0.571	0.829	0.610	-2.555	1.995
-2.555	0.208							
185A	1.634	-0.619	0.935	-0.519	0.465	0.010	-3.539	1.634
-3.539	-0.233							
186S	0.996	0.195	0.795	-0.719	0.446	0.012	-2.207	0.996
-2.207	-0.069							
187G	-0.047	-0.302	0.664	-1.255	0.310	0.017	-2.344	0.664
-2.344	-0.423							
188A	0.085	-1.025	1.094	-1.912	0.784	0.642	-1.335	1.094
-1.912	-0.238							
189I	0.085	-0.486	1.337	-2.241	1.057	0.661	-0.105	1.337
-2.241	0.044							
190W	-0.559	0.197	1.066	-2.361	0.893	0.642	0.324	1.066
-2.361	0.029							
191R	-0.288	0.700	1.346	-1.675	1.257	1.131	0.314	1.346
-1.675	0.398							
192P	-0.288	0.245	1.589	-0.863	1.531	1.150	1.545	1.589
-0.863	0.701							
193V	0.351	0.700	1.730	-0.086	1.549	1.148	0.213	1.730
-0.086	0.801							
194D	1.116	0.592	1.954	0.350	1.804	1.142	0.410	1.954
0.350	1.053							
195P	1.116	-0.152	1.954	0.281	1.804	1.142	0.410	1.954
-0.152	0.937							
196A	0.402	-0.152	1.627	-0.279	1.540	1.128	0.625	1.627
-0.279	0.699							
197P	0.054	-0.152	1.664	-0.945	1.558	1.132	0.472	1.664
-0.945	0.540							
198R	-0.446	-0.152	1.636	-1.491	1.513	0.662	0.701	1.636
-1.491	0.346							
199L	-0.446	-0.390	1.393	-1.772	1.239	0.643	-0.529	1.393
-1.772	0.020							
200L	-0.446	-0.186	1.636	-1.453	1.513	0.662	0.701	1.636
-1.453	0.347							
201P	-0.085	-0.306	1.720	-1.215	1.604	1.243	0.454	1.720
-1.215	0.488							
202A	-0.218	-0.126	1.290	-0.938	1.130	0.618	-0.555	1.290
-0.938	0.172							
203P	-0.142	0.688	1.234	-1.174	1.103	0.615	-0.668	1.234
-1.174	0.236							

204E	1.072	0.329	1.589	-1.283	1.412	1.098	-1.112	1.589
-1.283	0.444							
205A	1.205	-0.450	1.776	-1.562	1.613	1.704	-1.333	1.776
-1.562	0.422							
206I	1.205	0.089	1.776	-1.373	1.613	1.704	-1.333	1.776
-1.373	0.526							
207D	0.490	0.317	1.449	-1.392	1.349	1.690	-1.118	1.690
-1.392	0.398							
208R	0.629	-0.426	1.393	-1.169	1.303	1.580	-1.101	1.580
-1.169	0.316							
209A	0.263	-1.240	1.272	-1.201	1.294	1.581	0.498	1.581
-1.240	0.352							
210L	0.187	-0.749	1.328	-0.965	1.321	1.585	0.612	1.585
-0.965	0.474							
211D	-0.313	-0.544	1.057	-1.056	1.002	1.096	-0.390	1.096
-1.056	0.122							
212V	-0.199	-0.593	0.954	-1.085	0.902	0.514	-0.225	0.954
-1.085	0.038							
213L	-0.199	0.317	0.954	-1.418	0.902	0.514	-0.225	0.954
-1.418	0.121							
214A	0.762	0.880	1.365	-1.441	1.267	0.551	-0.497	1.365
-1.441	0.412							
215Q	0.395	0.676	1.524	-1.539	1.422	0.686	-0.489	1.524
-1.539	0.382							
216A	0.762	-0.019	1.889	-1.265	1.704	0.704	-0.858	1.889
-1.265	0.417							
217Q	0.762	-0.116	1.889	-1.233	1.704	0.704	-0.858	1.889
-1.233	0.407							
218R	0.048	-0.811	1.804	-1.234	1.713	0.709	0.587	1.804
-1.234	0.402							
219P	-0.566	-0.769	1.356	-1.470	1.330	0.668	1.013	1.356
-1.470	0.223							
220L	-1.280	-0.296	1.272	-1.731	1.339	0.674	2.458	2.458
-1.731	0.348							
221L	-1.249	0.536	1.094	-1.850	1.121	0.651	2.454	2.454
-1.850	0.394							
222V	-1.154	0.740	1.113	-1.721	1.285	0.621	2.520	2.520
-1.721	0.486							
223L	-0.926	0.836	0.860	-1.423	0.966	0.602	2.301	2.301
-1.423	0.459							
224S	-0.212	0.634	0.945	-1.199	0.957	0.597	0.856	0.957
-1.199	0.368							
225K	0.503	-0.222	1.029	-1.256	0.948	0.592	-0.590	1.029
-1.256	0.143							
226G	0.617	-0.562	1.403	-1.545	1.194	0.609	-0.846	1.403
-1.545	0.124							
227A	1.331	-1.190	1.487	-1.728	1.185	0.604	-2.291	1.487
-2.291	-0.086							
228A	1.299	-0.651	1.664	-1.790	1.403	0.626	-2.288	1.664
-2.288	0.038							
229Y	1.072	-0.042	1.216	-1.622	0.765	0.032	-3.363	1.216
-3.363	-0.277							
230A	1.344	0.269	1.496	-1.206	1.130	0.521	-3.372	1.496
-3.372	0.026							
231Q	1.653	-0.056	1.795	-0.404	1.440	0.561	-2.475	1.795
-2.475	0.359							
232A	1.287	0.267	1.674	0.500	1.431	0.563	-0.876	1.674
-0.876	0.692							
233D	0.901	0.842	1.281	1.098	1.175	0.545	-0.887	1.281



263Q	1.653	0.073	1.674	1.186	1.330	0.691	-0.868	1.674
-0.868	0.820							
264S	1.375	0.395	1.524	0.227	1.175	0.671	-2.038	1.524
-2.038	0.476							
265A	1.375	0.395	1.365	-0.744	1.002	0.051	-3.316	1.375
-3.316	0.018							
266A	1.508	0.191	1.552	-1.526	1.203	0.657	-3.536	1.552
-3.536	0.007							
267A	1.540	0.191	1.375	-1.744	0.984	0.635	-3.540	1.540
-3.540	-0.080							
268A	0.547	0.077	1.141	-1.787	0.838	0.620	-3.265	1.141
-3.265	-0.261							
269R	0.547	0.077	1.141	-1.419	0.838	0.620	-3.265	1.141
-3.265	-0.209							
270S	0.149	0.077	1.132	-1.360	0.884	0.637	-2.310	1.132
-2.310	-0.113							
271L	0.149	-0.779	1.132	-1.567	0.884	0.637	-2.310	1.132
-2.310	-0.265							
272A	0.281	-0.036	1.561	-2.102	1.358	1.262	-1.301	1.561
-2.102	0.146							
273M	0.149	-0.132	1.132	-2.438	0.884	0.637	-2.310	1.132
-2.438	-0.297							
274A	0.370	-0.114	1.253	-2.387	1.048	1.106	-2.479	1.253
-2.479	-0.172							
275R	0.718	-0.318	1.216	-1.891	1.030	1.102	-2.325	1.216
-2.325	-0.067							
276A	0.351	-1.336	1.094	-1.286	1.020	1.104	-0.726	1.104
-1.336	0.032							
277D	0.035	-1.432	1.019	-0.986	0.984	1.092	-0.236	1.092
-1.432	0.068							
278V	-0.680	-1.344	0.935	-1.182	0.993	1.097	1.209	1.209
-1.344	0.147							
279V	-1.179	-1.248	0.384	-1.702	0.510	0.474	1.799	1.799
-1.702	-0.137							
280L	-0.951	-0.338	0.375	-2.089	0.465	0.474	2.809	2.809
-2.089	0.106							
281L	-1.451	-0.338	0.104	-2.351	0.146	-0.015	1.808	1.808
-2.351	-0.300							
282V	-0.951	0.475	0.655	-2.281	0.629	0.608	1.219	1.219
-2.281	0.050							
283G	-1.299	0.069	0.692	-2.262	0.647	0.612	1.065	1.065
-2.262	-0.068							
284A	-0.275	-0.763	1.075	-1.847	0.948	0.647	0.517	1.075
-1.847	0.043							
285R	-0.325	-0.967	1.178	-1.389	0.957	0.667	0.104	1.178
-1.389	0.032							
286L	-0.673	-1.154	1.216	-0.710	0.975	0.671	-0.050	1.216
-1.154	0.039							
287N	-1.615	-0.340	1.141	-0.464	1.030	0.677	0.385	1.141
-1.615	0.116							
288W	-1.388	-0.322	1.132	-0.707	0.984	0.677	1.395	1.395
-1.388	0.253							
289L	-1.211	0.756	1.001	-0.923	0.820	0.093	1.283	1.283
-1.211	0.260							
290L	-0.269	1.816	1.075	-0.783	0.765	0.087	0.849	1.816
-0.783	0.506							
291G	-0.218	2.379	1.103	-0.376	0.820	0.646	0.935	2.379
-0.376	0.756							
292N	0.825	2.243	1.234	0.279	0.957	0.641	1.073	2.243



322A	-0.673	0.538	0.982	-1.460	0.884	0.037	0.998	0.998
-1.460	0.186							
323P	-0.446	0.213	0.730	-1.268	0.565	0.018	0.778	0.778
-1.268	0.084							
324L	0.692	0.481	1.141	-0.743	0.902	0.505	0.447	1.141
-0.743	0.489							
325T	0.421	1.541	1.122	-0.606	0.893	0.505	0.180	1.541
-0.606	0.579							
326G	0.648	0.954	1.113	-0.431	0.847	0.505	1.191	1.191
-0.431	0.690							
327D	0.926	0.213	1.019	-0.469	0.729	0.506	1.131	1.131
-0.469	0.579							
328I	1.274	0.529	0.982	-0.524	0.711	0.502	1.284	1.284
-0.524	0.680							
329G	0.680	0.854	0.776	-0.772	0.601	0.499	1.188	1.188
-0.772	0.547							
330S	0.730	0.023	0.935	-0.724	0.802	0.519	1.348	1.348
-0.724	0.519							
331V	0.231	-1.037	0.664	-0.946	0.483	0.031	0.347	0.664
-1.037	-0.033							
332M	0.155	-0.366	0.720	-0.967	0.510	0.034	0.460	0.720
-0.967	0.078							
333S	-0.787	-0.252	0.646	-1.158	0.565	0.040	0.895	0.895
-1.158	-0.008							
334A	-0.705	-1.107	0.823	-1.531	0.774	0.619	0.709	0.823
-1.531	-0.060							
335L	-0.338	-1.107	0.945	-1.926	0.784	0.617	-0.890	0.945
-1.926	-0.274							
336L	0.060	-0.364	0.954	-2.184	0.738	0.600	-1.845	0.954
-2.184	-0.292							
337E	-0.218	0.654	0.804	-2.401	0.583	0.580	-3.015	0.804
-3.015	-0.430							
338A	0.281	0.934	1.075	-2.016	0.902	1.069	-2.014	1.075
-2.016	0.033							
339A	1.129	1.790	1.589	-1.613	1.367	1.688	-2.450	1.790
-2.450	0.500							
340A	2.121	1.694	1.823	-0.870	1.513	1.703	-2.725	2.121
-2.725	0.751							
341D	2.039	1.694	1.646	-0.158	1.303	1.124	-2.539	2.039
-2.539	0.730							
342R	1.672	2.010	1.524	0.373	1.294	1.125	-0.940	2.010
-0.940	1.008							
343S	1.672	1.197	1.524	0.492	1.294	1.125	-0.940	1.672
-0.940	0.909							
344S	1.951	0.341	1.674	0.456	1.449	1.145	0.230	1.951
0.230	1.035							
345V	1.451	-1.017	1.403	-0.063	1.130	0.656	-0.771	1.451
-1.017	0.398							
346A	1.318	-0.430	0.973	-0.336	0.656	0.032	-1.780	1.318
-1.780	0.062							
347S	0.275	0.197	0.842	-0.776	0.519	0.037	-1.918	0.842
-1.918	-0.118							
348A	0.193	-0.084	0.889	-1.088	0.519	0.037	-2.037	0.889
-2.037	-0.225							
349A	0.787	-0.288	1.001	-1.353	0.483	0.035	-2.625	1.001
-2.625	-0.280							
350W	1.148	-0.288	1.328	-1.449	0.847	0.635	-1.642	1.328
-1.642	0.083							
351T	0.155	0.754	1.094	-1.617	0.701	0.620	-1.366	1.094

-1.617	0.049							
352G	0.155	1.076	1.094	-1.699	0.701	0.620	-1.366	1.094
-1.699	0.083							
353E	0.655	1.281	1.365	-1.651	1.020	1.109	-0.365	1.365
-1.651	0.488							
354L	1.552	0.706	1.776	-1.525	1.476	1.708	-0.388	1.776
-1.525	0.758							
355A	1.584	1.724	2.029	-1.253	1.959	2.283	-0.364	2.283
-1.253	1.137							
356D	1.356	2.333	2.038	-1.151	2.005	2.283	-1.375	2.333
-1.375	1.070							
357R	1.129	2.649	2.141	-1.408	2.114	2.308	-1.349	2.649
-1.408	1.083							
358K	2.153	1.836	2.524	-1.442	2.415	2.343	-1.897	2.524
-1.897	1.133							
359A	2.431	1.836	2.674	-0.956	2.570	2.363	-0.727	2.674
-0.956	1.456							
360R	1.932	1.722	2.403	-0.110	2.251	1.874	-1.728	2.403
-1.728	1.192							
361N	2.026	1.722	2.421	0.673	2.415	1.844	-1.662	2.421
-1.662	1.348							
362S	1.401	1.926	1.963	0.528	1.823	1.267	-1.783	1.963
-1.783	1.018							
363A	1.533	1.884	2.393	-0.529	2.296	1.892	-0.773	2.393
-0.773	1.242							
364K	1.533	1.680	2.393	-1.726	2.296	1.892	-0.773	2.393
-1.726	1.042							
365M	1.356	0.848	2.524	-2.712	2.461	2.476	-0.661	2.524
-2.712	0.899							
366R	0.364	1.501	2.290	-3.048	2.315	2.461	-0.386	2.461
-3.048	0.785							
367R	0.364	1.227	2.290	-2.975	2.315	2.461	-0.386	2.461
-2.975	0.756							
368R	0.636	0.503	2.113	-2.510	1.996	2.355	-0.460	2.355
-2.510	0.662							
369L	1.533	-0.220	2.393	-1.626	2.269	2.827	-0.414	2.827
-1.626	0.966							
370A	1.401	0.343	2.122	-0.178	1.968	2.822	-0.146	2.822
-0.178	1.190							
371D	1.268	0.229	1.851	1.545	1.668	2.817	0.123	2.817
0.123	1.357							
372D	1.135	0.503	1.664	2.965	1.467	2.212	0.343	2.965
0.343	1.470							
373H	1.451	-0.210	1.739	3.369	1.504	2.224	-0.147	3.369
-0.210	1.419							
374H	1.584	-0.707	2.169	2.659	1.977	2.848	0.862	2.848
-0.707	1.628							
375P	0.370	-0.188	1.832	1.116	1.613	2.364	1.123	2.364
-0.188	1.176							
376M	-0.382	-0.546	1.814	-0.373	1.531	1.894	1.464	1.894
-0.546	0.772							
377R	-0.073	-0.637	1.954	-0.809	1.668	1.315	1.083	1.954
-0.809	0.643							
378F	-0.073	-0.823	1.795	-0.540	1.494	0.695	-0.194	1.795
-0.823	0.336							
379Y	-0.787	-0.649	1.468	0.146	1.230	0.681	0.021	1.468
-0.787	0.301							
380N	-0.161	-0.566	1.468	0.332	1.139	0.664	0.076	1.468
-0.566	0.422							



381A	-0.294	-0.362	1.038	-0.159	0.665	0.039	-0.933	1.038
-0.933	-0.001							
382L	-0.218	0.493	0.963	-1.167	0.692	0.037	-0.862	0.963
-1.167	-0.009							
383G	0.168	0.602	1.141	-1.913	0.929	0.642	-1.195	1.141
-1.913	0.053							
384A	0.136	-0.230	0.991	-2.293	0.774	0.622	-0.923	0.991
-2.293	-0.132							
385I	-0.231	0.261	0.870	-2.120	0.765	0.623	0.676	0.870
-2.120	0.121							
386R	-0.231	1.399	0.870	-1.709	0.765	0.623	0.676	1.399
-1.709	0.342							
387S	-0.212	1.195	1.206	-1.334	1.185	0.666	0.839	1.206
-1.334	0.506							
388V	-0.079	0.698	1.636	-1.267	1.658	1.290	1.849	1.849
-1.267	0.826							
389L	0.869	1.333	2.075	-0.963	1.987	1.329	1.414	2.075
-0.963	1.149							
390Q	0.737	1.441	1.889	-0.474	1.786	0.724	1.635	1.889
-0.474	1.105							
391R	0.958	0.544	2.010	0.485	1.950	1.192	1.466	2.010
0.485	1.229							
392N	0.958	-0.366	2.010	1.295	1.950	1.192	1.466	2.010
-0.366	1.215							
393P	1.420	-1.071	2.346	1.624	2.178	1.206	1.363	2.346
-1.071	1.295							
394D	0.806	-0.821	1.898	0.951	1.795	1.165	1.788	1.898
-0.821	1.083							
395V	0.307	-0.785	1.346	0.051	1.312	0.542	2.378	2.378
-0.785	0.736							
396Y	0.307	-0.062	1.346	-0.619	1.312	0.542	2.378	2.378
-0.619	0.744							
397V	0.667	0.345	1.431	-0.652	1.403	1.123	2.132	2.132
-0.652	0.921							
398V	0.395	1.050	1.150	-0.286	1.039	0.634	2.141	2.141
-0.286	0.875							
399N	0.762	1.147	1.272	-0.053	1.048	0.632	0.542	1.272
-0.053	0.764							
400E	1.325	0.333	1.318	0.123	1.121	0.654	0.097	1.325
0.097	0.710							
401G	1.691	0.297	1.440	-0.030	1.130	0.652	-1.502	1.691
-1.502	0.526							
402A	1.344	-0.534	1.477	0.142	1.148	0.656	-1.655	1.477
-1.655	0.368							
403N	1.533	-0.534	1.449	0.194	1.157	1.104	-1.551	1.533
-1.551	0.479							
404A	0.459	-0.330	1.038	0.186	0.802	0.510	-1.090	1.038
-1.090	0.225							
405L	0.231	0.279	1.047	-0.160	0.847	0.510	-2.101	1.047
-2.101	0.093							
406D	0.364	0.159	1.477	-0.613	1.321	1.135	-1.091	1.477
-1.091	0.393							
407L	0.364	-0.705	1.477	-0.821	1.321	1.135	-1.091	1.477
-1.091	0.240							
408A	-0.275	0.039	1.337	-0.855	1.303	1.137	0.240	1.337
-0.855	0.418							
409R	-0.199	-0.076	1.281	-0.623	1.276	1.133	0.127	1.281
-0.623	0.417							
410N	-0.199	-0.799	1.281	-0.536	1.276	1.133	0.127	1.281

-0.799	0.326							
411I	0.117	-1.612	1.356	-0.642	1.312	1.145	-0.363	1.356
-1.612	0.187							
412I	0.117	-0.929	1.515	-0.543	1.485	1.765	0.914	1.765
-0.929	0.618							
413D	-0.730	0.209	1.001	-0.344	1.020	1.145	1.350	1.350
-0.730	0.522							
414M	-1.040	-0.240	0.945	0.019	0.984	1.124	1.683	1.683
-1.040	0.496							
415H	-0.269	0.688	1.515	0.162	1.476	1.747	1.361	1.747
-0.269	0.954							
416L	0.370	0.393	1.814	0.407	1.668	2.365	1.306	2.365
0.370	1.189							
417P	0.003	1.137	1.973	0.048	1.823	2.500	1.314	2.500
0.003	1.257							
418R	-0.313	1.633	1.898	0.129	1.786	2.489	1.805	2.489
-0.313	1.347							
419H	0.187	1.447	2.010	-0.063	1.932	2.358	1.528	2.358
-0.063	1.343							
420R	1.179	1.848	2.244	0.131	2.078	2.372	1.253	2.372
0.131	1.586							
421L	1.407	0.532	1.991	0.184	1.759	2.353	1.034	2.353
0.184	1.323							
422D	1.470	1.363	1.758	0.589	1.440	1.749	1.075	1.758
0.589	1.349							
423S	0.705	0.728	1.617	0.431	1.285	1.154	0.830	1.617
0.431	0.964							
424G	0.800	-0.242	1.178	0.097	0.765	0.529	0.831	1.178
-0.242	0.566							
425T	1.148	-0.242	1.141	-0.606	0.747	0.526	0.985	1.148
-0.606	0.528							
426W	0.250	-1.057	0.860	-1.409	0.474	0.054	0.939	0.939
-1.409	0.016							
427G	0.199	0.073	0.702	-1.969	0.273	0.034	0.779	0.779
-1.969	0.013							
428V	-0.667	-0.669	0.571	-2.335	0.300	0.036	1.101	1.101
-2.335	-0.238							
429M	-0.635	0.055	0.365	-2.568	0.100	0.016	1.060	1.060
-2.568	-0.230							
430G	-0.269	-0.238	0.337	-2.701	0.127	0.008	0.983	0.983
-2.701	-0.250							
431I	-0.269	-0.865	0.337	-2.686	0.127	0.008	0.983	0.983
-2.686	-0.338							
432G	-0.155	-0.865	0.711	-2.592	0.373	0.025	0.726	0.726
-2.592	-0.254							
433M	0.244	-1.492	0.720	-2.344	0.328	0.008	-0.229	0.720
-2.344	-0.395							
434G	-0.623	-1.378	0.589	-2.236	0.355	0.010	0.093	0.589
-2.236	-0.456							
435Y	0.016	-2.005	0.730	-2.137	0.373	0.008	-1.239	0.730
-2.137	-0.608							
436A	-0.212	-1.695	0.739	-2.299	0.419	0.008	-2.250	0.739
-2.299	-0.756							
437I	0.187	-1.119	0.748	-2.408	0.373	-0.009	-3.205	0.748
-3.205	-0.776							
438A	-0.408	-0.304	0.636	-2.464	0.410	-0.007	-2.616	0.636
-2.616	-0.679							
439A	0.206	0.323	0.711	-2.402	0.537	0.573	-2.975	0.711
-2.975	-0.432							

440A	0.402	1.137	0.907	-2.184	0.692	0.593	-1.924	1.137
-2.184	-0.054							
441V	1.268	1.495	1.038	-1.929	0.665	0.591	-2.245	1.495
-2.245	0.126							
442E	1.401	1.495	1.468	-1.730	1.139	1.216	-1.236	1.495
-1.730	0.536							
443T	1.401	0.824	1.711	-1.459	1.412	1.235	-0.006	1.711
-1.459	0.731							
444G	1.034	0.333	1.589	-1.351	1.403	1.236	1.593	1.593
-1.351	0.834							
445R	1.034	-0.619	1.589	-1.309	1.403	1.236	1.593	1.593
-1.309	0.704							
446P	0.673	-0.857	1.262	-1.380	1.039	0.637	0.609	1.262
-1.380	0.283							
447V	-0.161	-0.589	0.926	-1.686	0.866	0.618	0.890	0.926
-1.686	0.123							
448V	-0.028	0.047	1.262	-2.075	1.276	1.218	0.864	1.276
-2.075	0.366							
449A	0.067	0.998	0.823	-2.369	0.756	0.593	0.865	0.998
-2.369	0.248							
450I	0.566	0.998	0.851	-2.274	0.802	1.063	0.636	1.063
-2.274	0.377							
451E	1.211	1.149	1.122	-1.541	0.966	1.082	0.207	1.211
-1.541	0.599							
452G	1.578	1.201	1.244	-0.560	0.975	1.080	-1.392	1.578
-1.392	0.589							
453D	0.863	0.399	1.178	0.282	0.929	1.084	-0.131	1.178
-0.131	0.658							
454S	1.729	0.716	1.309	0.495	0.902	1.083	-0.452	1.729
-0.452	0.826							
455A	0.655	0.487	0.917	0.180	0.492	0.487	-0.175	0.917
-0.175	0.435							
456F	0.705	0.373	1.075	-0.106	0.692	0.507	-0.015	1.075
-0.106	0.462							
457G	0.433	1.123	0.795	-0.239	0.328	0.018	-0.006	1.123
-0.239	0.350							
458F	-0.243	0.321	0.636	-0.267	0.218	0.015	-0.221	0.636
-0.267	0.066							
459S	0.117	1.070	0.963	-0.443	0.583	0.615	0.763	1.070
-0.443	0.524							
460G	0.117	0.706	0.963	-0.968	0.583	0.615	0.763	0.963
-0.968	0.397							
461M	0.250	-0.246	1.300	-1.531	0.993	1.215	0.736	1.300
-1.531	0.388							
462E	1.160	-0.096	1.561	-1.670	1.194	1.230	0.526	1.561
-1.670	0.558							
463F	0.244	0.143	1.272	-1.711	1.020	1.212	0.688	1.272
-1.711	0.410							
464E	-0.028	-0.090	1.066	-1.393	0.975	1.230	1.310	1.310
-1.393	0.439							
465T	0.503	0.149	1.505	-1.342	1.403	1.837	1.364	1.837
-1.342	0.774							
466I	-0.111	-0.546	1.431	-1.249	1.276	1.257	1.723	1.723
-1.249	0.540							
467C	0.737	0.137	1.926	-1.426	1.795	1.878	1.471	1.926
-1.426	0.931							
468R	-0.338	0.005	1.515	-1.550	1.440	1.283	1.932	1.932
-1.550	0.612							
469Y	-0.534	-0.318	1.561	-1.756	1.558	1.282	2.111	2.111

-1.756	0.558							
470R	-0.262	-0.007	1.580	-1.733	1.567	1.282	2.378	2.378
-1.733	0.686							
471L	-0.022	-0.917	1.991	-1.560	1.813	1.284	1.797	1.991
-1.560	0.627							
472P	-0.521	-1.037	1.440	-1.251	1.330	0.661	2.386	2.386
-1.251	0.430							
473V	-0.635	-1.600	1.066	-1.126	1.084	0.644	2.643	2.643
-1.600	0.296							
474T	-1.407	-0.895	0.496	-1.356	0.592	0.021	2.965	2.965
-1.407	0.060							
475V	-1.407	-0.777	0.496	-1.761	0.592	0.021	2.965	2.965
-1.761	0.019							
476V	-1.097	-0.054	0.552	-1.852	0.629	0.042	2.632	2.632
-1.852	0.122							
477I	-0.420	0.670	0.973	-1.058	0.948	0.081	1.931	1.931
-1.058	0.446							
478L	-0.389	0.898	0.767	0.209	0.747	0.061	1.890	1.890
-0.389	0.598							
479N	0.206	0.696	0.879	1.482	0.711	0.060	1.302	1.482
0.060	0.762							
480N	0.206	0.900	0.879	1.719	0.711	0.060	1.302	1.719
0.060	0.825							
481G	0.591	0.918	1.272	0.931	0.966	0.077	1.312	1.312
0.077	0.867							
482G	1.438	0.830	1.786	-0.336	1.431	0.697	0.876	1.786
-0.336	0.960							
483V	1.356	0.778	1.477	-1.363	1.075	0.656	0.990	1.477
-1.363	0.710							
484Y	1.546	0.874	1.449	-1.609	1.084	1.104	1.094	1.546
-1.609	0.792							
485R	1.679	1.772	1.786	-1.336	1.494	1.704	1.067	1.786
-1.336	1.167							
486G	1.451	0.634	1.795	-0.951	1.540	1.704	0.057	1.795
-0.951	0.890							
487D	2.014	-0.168	2.113	-0.681	1.704	1.722	-0.491	2.113
-0.681	0.888							
488E	1.628	0.107	1.720	-0.864	1.449	1.705	-0.502	1.720
-0.864	0.749							
489A	0.781	0.387	1.225	-1.110	0.929	1.084	-0.250	1.225
-1.110	0.435							
490T	0.686	0.387	1.664	-1.445	1.449	1.709	-0.251	1.709
-1.445	0.600							
491I	0.465	-0.104	1.543	-1.457	1.285	1.240	-0.082	1.543
-1.457	0.413							
492F	0.104	0.580	1.216	-1.278	0.920	0.641	-1.066	1.216
-1.278	0.160							
493R	0.104	0.658	1.216	-0.967	0.920	0.641	-1.066	1.216
-1.066	0.215							
494S	-0.092	-0.659	1.262	-0.821	1.039	0.640	-0.887	1.262
-0.887	0.069							
495A	0.180	-0.701	1.281	-0.756	1.048	0.639	-0.620	1.281
-0.756	0.153							
496A	0.130	-0.611	1.365	-0.990	1.112	0.660	-0.849	1.365
-0.990	0.117							
497P	0.130	-0.072	1.365	-1.232	1.112	0.660	-0.849	1.365
-1.232	0.159							
498V	-0.148	-0.072	1.375	-1.276	1.130	1.260	-0.741	1.375
-1.276	0.218							

499W	0.351	0.025	1.646	-0.838	1.449	1.749	0.260	1.749
-0.838	0.663							
500R	0.351	0.886	1.889	0.150	1.722	1.768	1.490	1.889
0.150	1.179							
501H	0.351	0.564	1.646	0.986	1.449	1.749	0.260	1.749
0.260	1.001							
502D	0.718	0.377	2.010	1.481	1.731	1.766	-0.109	2.010
-0.109	1.139							
503P	1.679	-0.366	2.188	1.160	1.868	1.761	-0.090	2.188
-0.366	1.171							
504A	1.179	-0.116	1.636	0.551	1.385	1.138	0.499	1.636
-0.116	0.896							
505P	0.465	-0.116	1.393	-0.227	1.221	0.524	0.667	1.393
-0.227	0.561							
506T	0.275	-0.384	1.421	-0.339	1.212	0.075	0.563	1.421
-0.384	0.403							
507V	0.275	-0.875	1.178	-0.361	0.938	0.056	-0.667	1.178
-0.875	0.078							
508L	0.275	0.035	1.337	0.370	1.112	0.676	0.610	1.337
0.035	0.631							
509N	0.275	0.329	1.094	0.836	0.838	0.657	-0.620	1.094
-0.620	0.487							
510A	0.212	0.295	1.328	1.090	1.157	1.262	-0.661	1.328
-0.661	0.669							
511H	0.579	0.091	1.608	0.986	1.339	1.880	-0.983	1.880
-0.983	0.786							
512A	1.653	-0.324	2.019	0.612	1.695	2.474	-1.444	2.474
-1.444	0.955							
513R	0.629	-0.324	1.636	0.071	1.394	2.439	-0.896	2.439
-0.896	0.707							
514H	-0.009	-0.562	1.496	-0.299	1.376	2.441	0.436	2.441
-0.562	0.697							
515E	-0.009	-0.653	1.337	-1.055	1.203	1.821	-0.842	1.821
-1.055	0.257							
516L	0.351	-1.402	1.664	-1.836	1.567	2.421	0.142	2.421
-1.836	0.415							
517I	0.218	-0.570	1.234	-2.326	1.093	1.796	-0.867	1.796
-2.326	0.083							
518A	-0.496	0.381	1.010	-2.531	0.875	1.180	-0.883	1.180
-2.531	-0.066							
519E	-0.629	1.213	0.674	-2.172	0.465	0.581	-0.857	1.213
-2.172	-0.104							
520A	0.313	1.265	0.748	-1.766	0.410	0.575	-1.291	1.265
-1.766	0.036							
521F	1.179	0.858	1.337	-1.524	1.066	1.168	-1.548	1.337
-1.548	0.362							
522G	1.407	1.123	1.328	-1.518	1.020	1.168	-0.538	1.407
-1.518	0.570							
523G	0.794	0.399	1.253	-1.649	0.893	0.588	-0.179	1.253
-1.649	0.300							
524K	0.794	0.628	1.412	-1.340	1.066	1.208	1.098	1.412
-1.340	0.695							
525G	1.141	0.287	1.356	-0.913	1.103	1.205	1.436	1.436
-0.913	0.802							
526Y	1.192	0.019	1.515	0.017	1.303	1.225	1.595	1.595
0.017	0.981							
527H	1.160	0.916	1.720	0.633	1.504	1.245	1.636	1.720
0.633	1.259							
528V	0.933	1.401	1.515	1.037	1.139	0.670	1.791	1.791



558D	2.071	1.854	1.627	-0.051	1.422	1.568	-0.064	2.071
-0.064	1.204							
559G	1.849	1.405	1.505	-0.491	1.257	1.099	0.105	1.849
-0.491	0.961							
560V	2.077	0.574	1.253	-0.851	0.938	1.080	-0.114	2.077
-0.851	0.708							
561E	2.077	0.670	1.412	-0.394	1.112	1.700	1.163	2.077
-0.394	1.106							
562S	0.863	0.926	1.057	-0.037	0.802	1.216	1.607	1.607
-0.037	0.919							
563G	0.636	-0.134	1.066	0.455	0.847	1.216	0.597	1.216
-0.134	0.669							
564H	1.230	-0.152	1.636	0.210	1.494	1.809	0.073	1.809
-0.152	0.900							
565L	0.155	0.249	1.225	-0.474	1.139	1.215	0.534	1.225
-0.474	0.578							
566A	0.187	0.944	1.375	-1.039	1.294	1.236	0.261	1.375
-1.039	0.608							
567K	0.155	1.800	1.580	-0.891	1.494	1.256	0.302	1.800
-0.891	0.814							
568L	0.351	0.968	1.617	-0.227	1.476	0.656	0.075	1.617
-0.227	0.702							
569N	1.344	1.173	1.851	0.786	1.622	0.670	-0.200	1.851
-0.200	1.035							
570T	1.344	1.054	1.851	1.194	1.622	0.670	-0.200	1.851
-0.200	1.076							
571T	1.116	0.922	1.403	0.928	0.984	0.076	-1.275	1.403
-1.275	0.593							
572S	2.026	0.431	1.683	0.388	1.130	0.090	-1.669	2.026
-1.669	0.583							
573A	1.717	-0.749	1.627	-0.276	1.093	0.069	-1.336	1.717
-1.336	0.306							
574A	1.521	0.107	1.431	-0.566	0.938	0.049	-2.387	1.521
-2.387	0.156							
575T	0.686	0.734	1.094	-0.742	0.765	0.031	-2.106	1.094
-2.106	0.066							
576P	0.686	0.782	1.094	-0.823	0.765	0.031	-2.106	1.094
-2.106	0.061							
577A	0.914	1.050	1.085	-0.938	0.720	0.031	-1.096	1.085
-1.096	0.252							
578I	1.413	1.305	1.356	-0.672	1.039	0.520	-0.095	1.413
-0.672	0.695							
579S	1.445	1.884	1.150	-0.360	0.838	0.500	-0.135	1.884
-0.360	0.760							
580G	1.312	1.283	0.449	0.088	0.884	0.541	-1.365	1.312
-1.365	0.456							
581D	1.179	0.910	-0.009	0.204	1.203	0.601	-1.365	1.203
-1.365	0.389							
582G	1.685	0.626	-0.326	0.140	1.540	0.659	-2.697	1.685
-2.697	0.232							

[TOP](#)

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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	<sup>1</sup> MTTRSASPCTVLTDGCHLVVDALKANDVDTIYGVVGIPITDLARAAQASGIR YIGFRHEASAGNA <sup>582</sup> AAAAGFLTARPGVCLTTSGPGFLNGLPALANATTNCFPMI QISGSSSRPMVDLQ <sup>582</sup> RGDYQDLQ <sup>582</sup> LNAARPFVKAAYRIGQVQDIGRGVARAIRT ATSGRPGGVYLDIPGDVLGQAVEASAASGAIWRPVDPAPRLLPAPEAIDRALD VLAQAQRPLLVL <sup>582</sup> SKGAAYAQADNVIREFVEHTGIPFLPMSMAKGLLPDSHPQS AAAARSLAMARADVLLVGARLNWLLGNGESPQWSADAKFIQVDIEASEFD SNRPVAPLTGDIGSVMSALLEAAADRSSVASAAWTGELADRKARNSAKMRR RLADDDHHPMRFYNALGAIRSVLQRNPVYV <sup>582</sup> VNEGANALDLARNIIDMHLPR HRLDSGTWGV <sup>582</sup> MGIGMGYAIAAAVETGRP <sup>582</sup> VVAIEGDSAFGFSGMEFETICRYRL PVTVVILNNGGVYRGDEATIFRSAAPVWRHDPAPTVLNAHARHELIAEAFGGK GYHVSTPTELESALTDALASNGPSLIDCELDPADGVESGHLAKLNTTSAATPAI SGDG <sup>582</sup>
Hydrophilicity	<sup>1</sup> MTTRSASPCTVLTDGCHLVVDAL <u>KANDVDTIYGVVGIPITDLARAAQASGIR</u> YIGFR <u>HEASAGNA</u> AAAAGFLTARPGVCLTTSGPGFLNGLPALANATTNCFPMI QI <u>SGSSSRP</u> MVDL <u>Q</u> <u>RGDYQD</u> LQ <sup>582</sup> LNAARPFVKAAYRIGQVQDIGRGVARAIRT <u>ATSGRPGG</u> VYLDIPGDVLGQAVE <u>EASAASG</u> AIWRPVDPAPRLLPAPEAIDRALD VLAQAQRPLLVL <sup>582</sup> SKGAAYAQADNVIREFVEHTGIPFLPMSMAKGLL <u>PDSHPQS</u> <u>A</u> AAARSLAMARADVLLVGARLNWLL <u>GNGESPQ</u> WSADAKFIQVDIEASEFD <u>SNRPVAPLTGDIGSVMSALLEAAADRSSVAS</u> AAWTGEL <u>ADRKARNSAKMRR</u> RLADDDHHPMRFYNALGAIRSVLQRNPVYV <sup>582</sup> VNEGANALDLARNIIDMHLPR HRLDSGTWGV <sup>582</sup> MGIGMGYAIAAAVETGRP <sup>582</sup> VVAIEGDSAFGFSGMEFETICRYRL PVTVVILNNGGV <u>YRGDEAT</u> IFRSAAPVWRHDPAPTVLNAHARHELIAEAFGGK GYHVSTPTELESALTDALASNGPSLIDCEL <u>DPADGVESGHLAKLNTTSAATPAI</u> SGDG <sup>582</sup>
Flexibility	1