

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

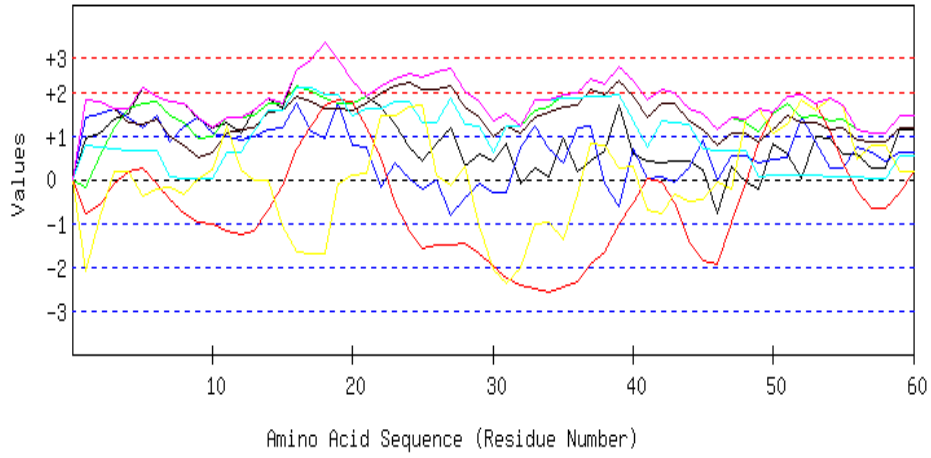
seqname=

Seq=VTESPTAGPGGVPRADDADSDVPRYRYTAELAARLERTWQENWARLGTfNVPNPVGS
LA PPDGAAVPDDKLFVQDMFPYPSGEGLVGHPLGYIATDVYARYFRMVGRNVLHALGFD
AFG LPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDVDFYRWTQWIFLQIYNA
WFDTTANKARPISELVAEFESGARCLDGRDWAKLTAGERADVDEYRLVYRADSLVNWCPGL
GTVLANEEVTADGRSDRGNFPVFRKRLRQWMMRITAYADRLDDLDVLDWPEQVKTMQRN
WIGRSTGAVALFSARAASDDGFEVDIEVFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVN
PLWTYGGGTPGEAIAAYRRAIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAG
YGTGAIMAVPGHDQRDWFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLN
GMSVPAAKR AIVDRLESAGRGRARIEFKLRDWL FARQRYWGEFPPIVYDS
DGRPHALDEAALPVELPDVPDY SPVLFDPDDADSESPPLAKATEWVHVDL
DLGDGLKPYSRDTNVMPQWAGSSWYELRYTDPH NSERFCAKENEAYWMGPR
PAEHGPDDPGGVDLYVGGAEHAVLHLLYSRFRWHKVLVYDLGHVS SREPYRRL
VNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPGPDGEVEVFQEFGKIGKSLKNS
VSPDEICDAYGADTLRVYEMSMGPLEASRPWATKDVVGAYRFLQRVWRLVVDEHT
GETRVAD GVELDIDTLRALHRTIVGVSEDFALRNNTATAKLIEYTNHLTKK
HRDAVPRAAVEPLVQMLAP LAPHIAEELWLRLGNTTSLAHGPFPKADAAYLV
DETVEYPVQVNGKVRGRVVVAADTDEETL KAAVLTDEKVQAFLAGATPRKVIV
VAGRLVNLVI

Length=969

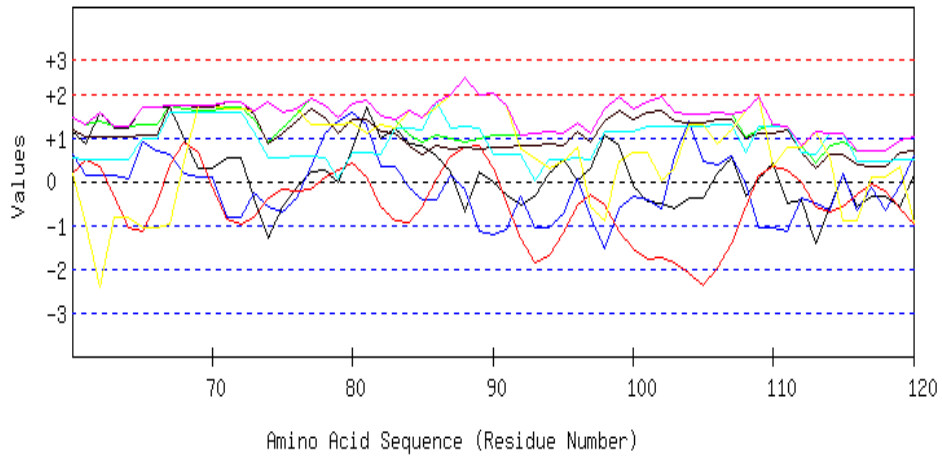
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60



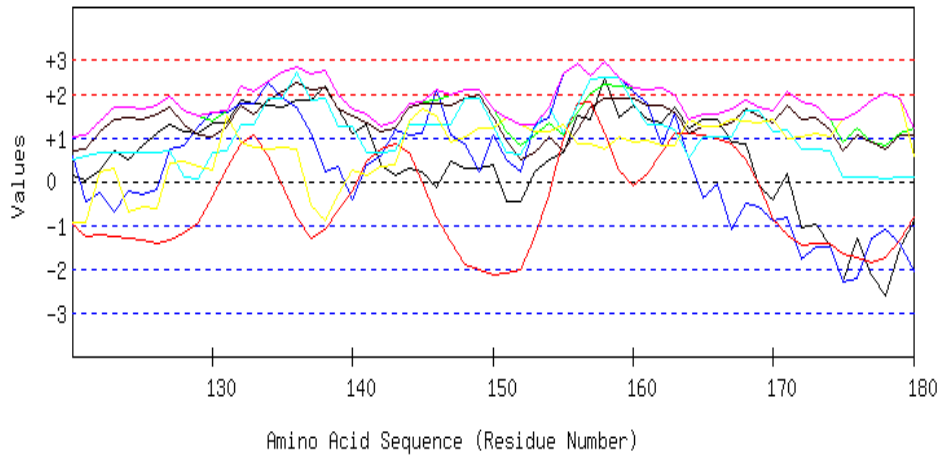
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 61 to 120



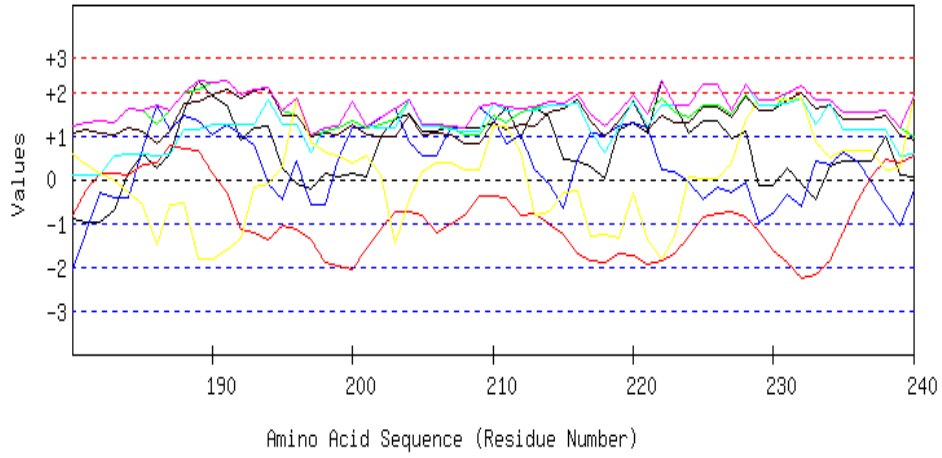
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180



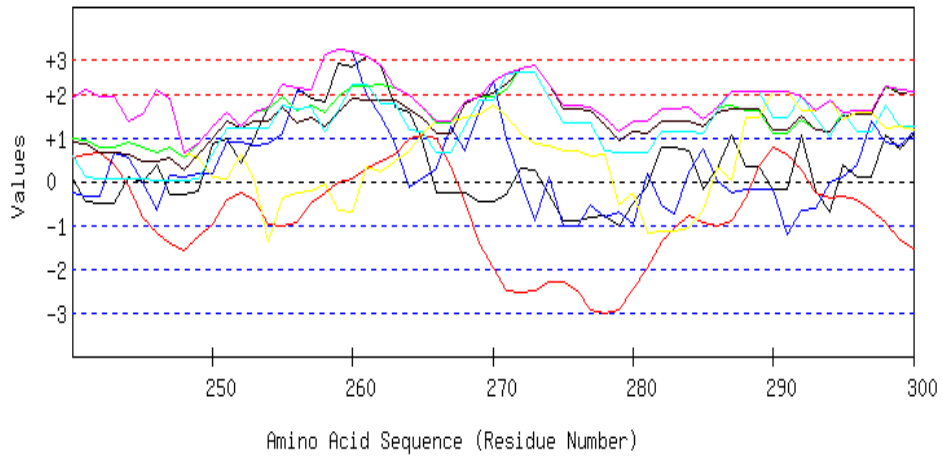
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240



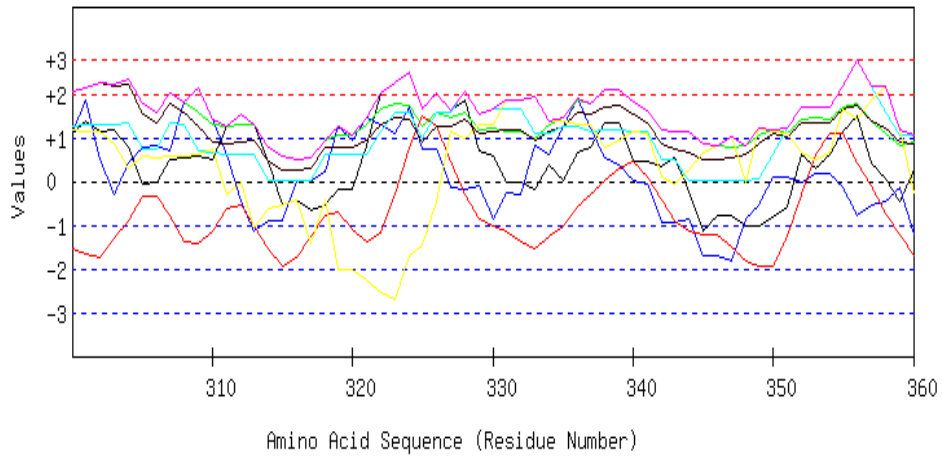
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300



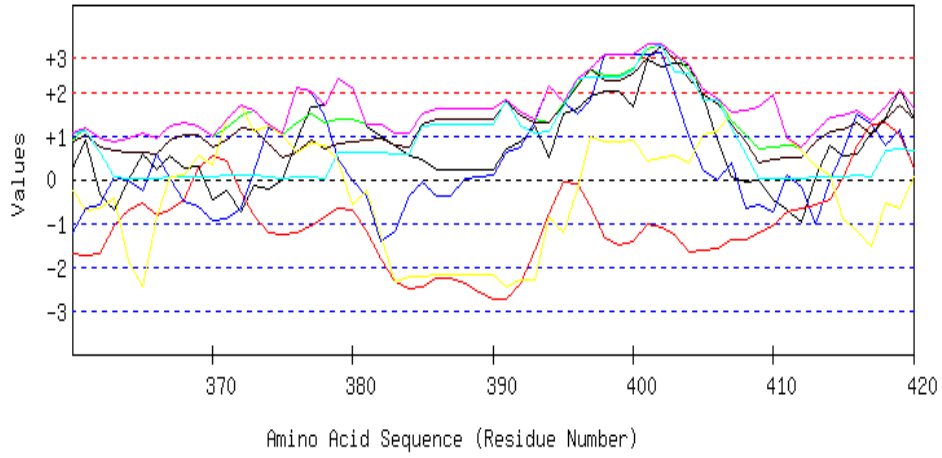
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360



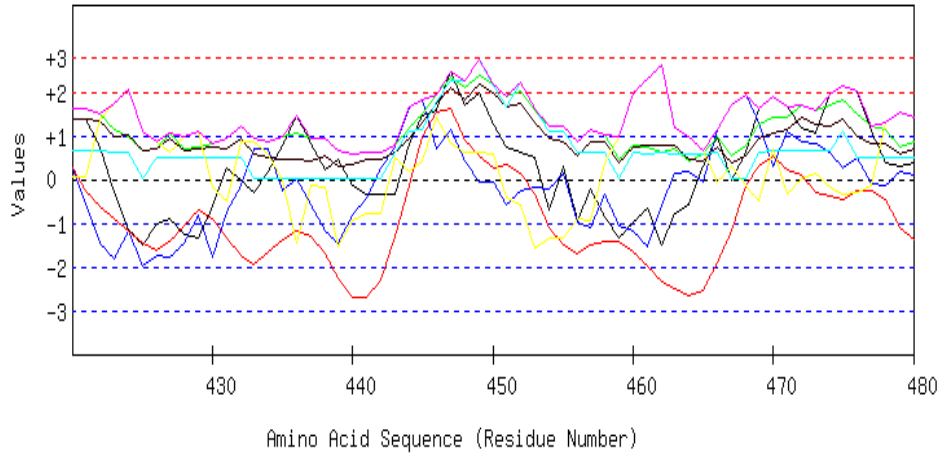
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420



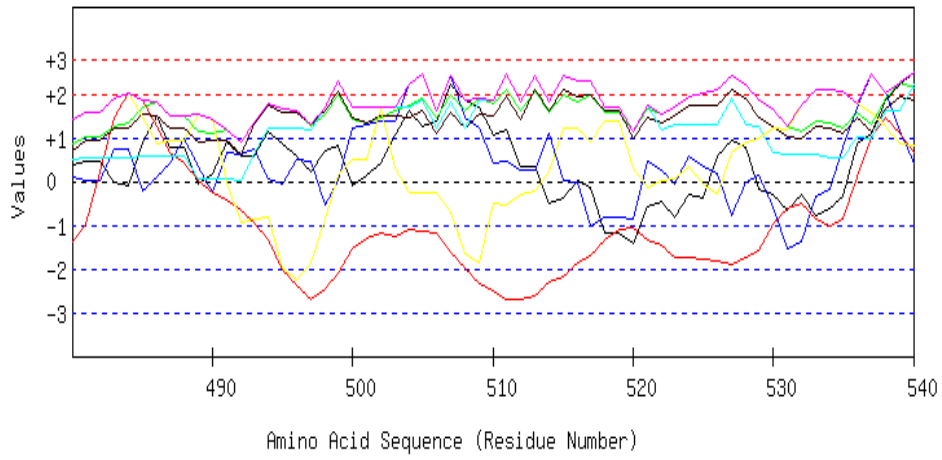
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480



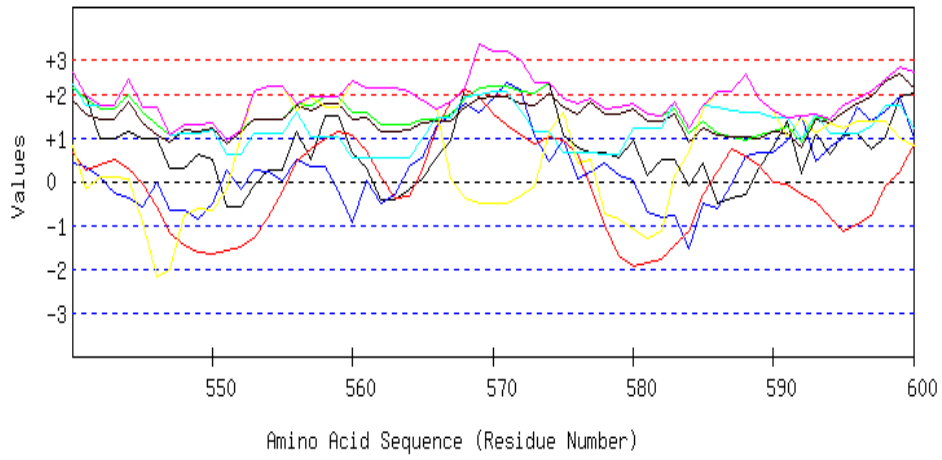
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540



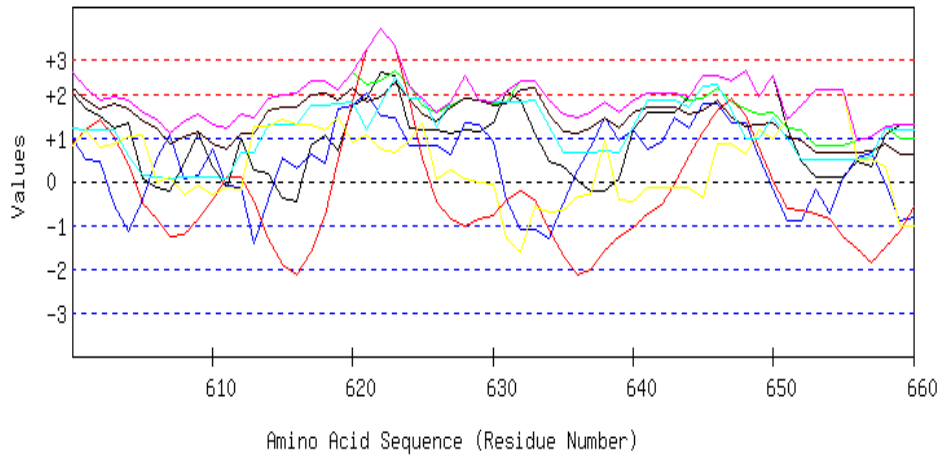
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 541 to 600



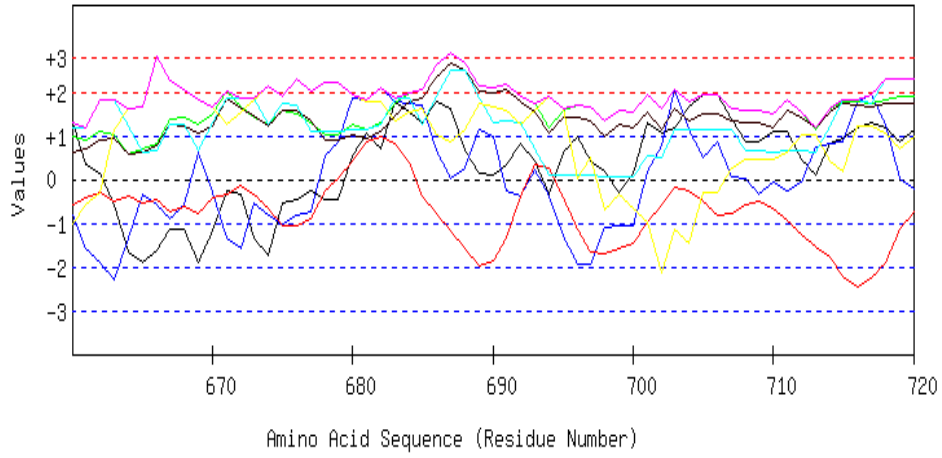
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 601 to 660



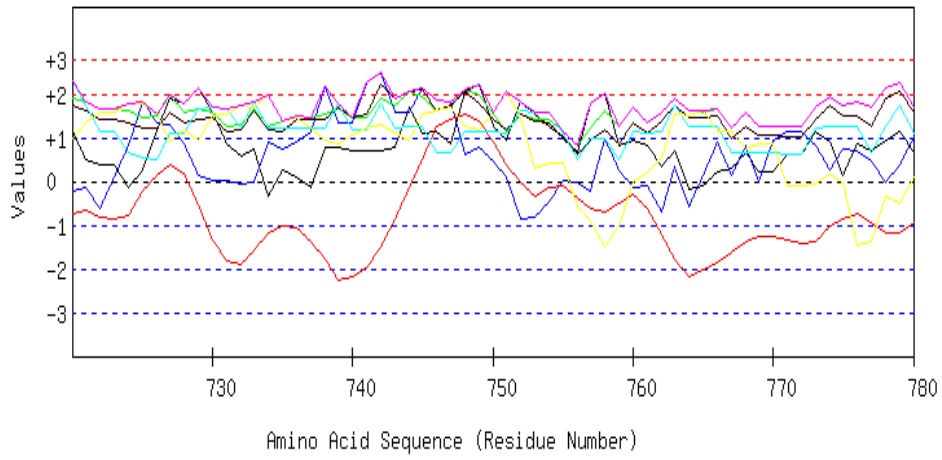
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 661 to 720



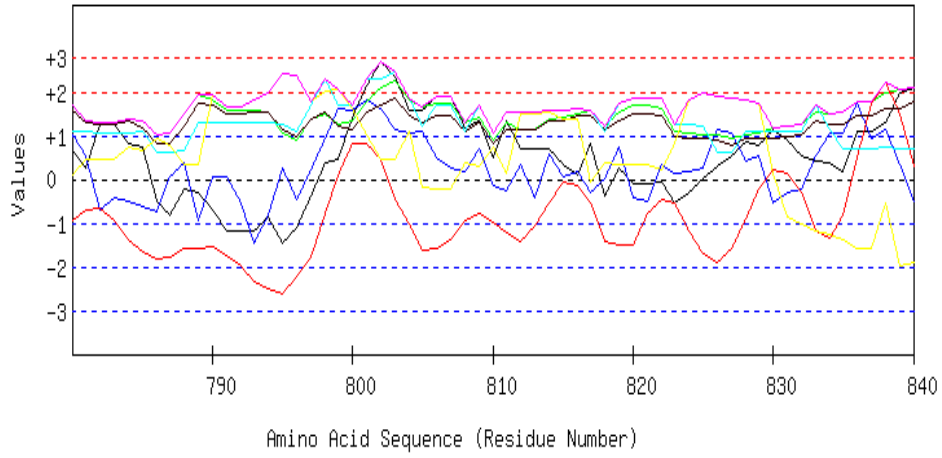
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 721 to 780



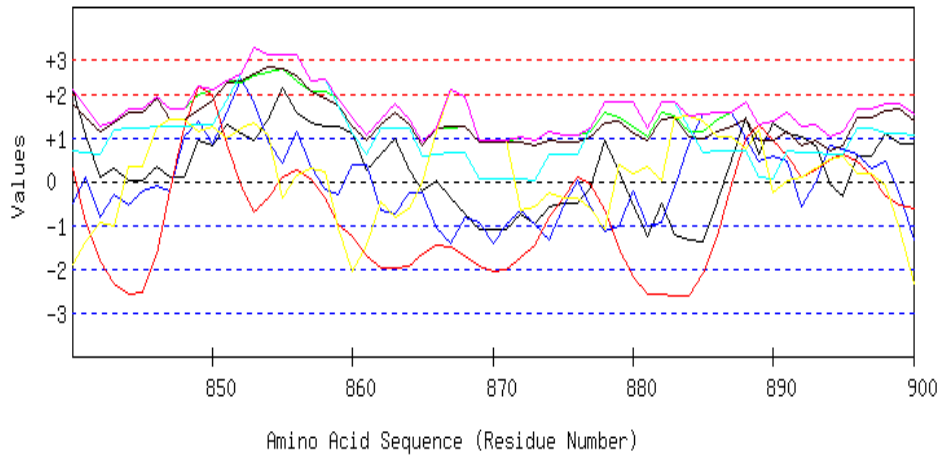
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 781 to 840



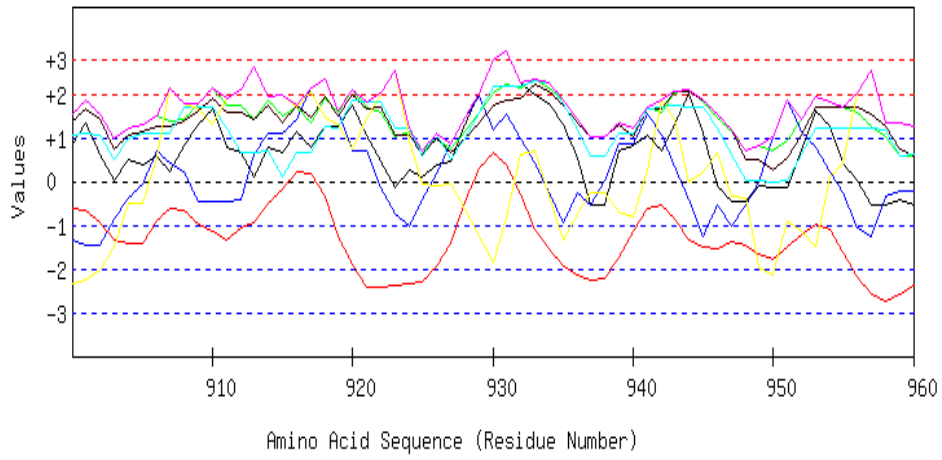
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 841 to 900



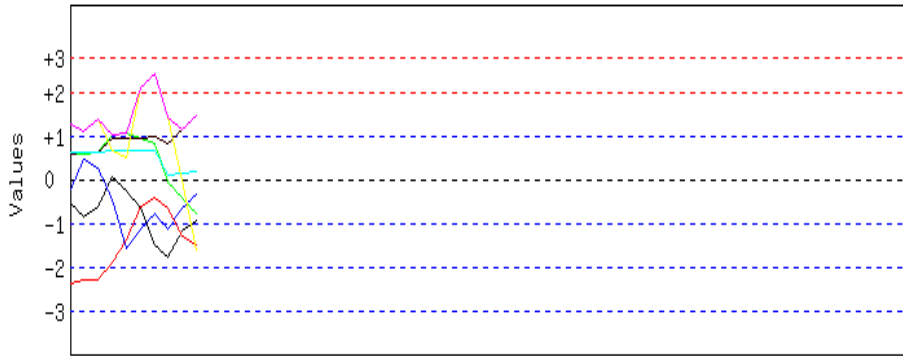
Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 901 to 960



Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 961 to 1020



Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

[TOP](#)

TABULAR RESULT

Selected Programs: hydro flexi access turns surface polar antipro

Respective Threshold: 1.9 2 1.9 2.4 2.3 1.8 1.9

```
VTESPTAGPGGVPRADDADSDVPRYRYTAELAAERLERTWQENWARLGTFNVPNPVGS LAP
PDGAAVPDDKLFVQDMFPYPSGEGLVGHPLGYIATDVYARYFRMVGRNVLHALGFDAFG
LPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDVDFYRWTQWIFLQI
YNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGERADVIDEYRLVYRADSLV
NWCPLGTVLANEEVTADGRSDRGFPVFRKRLRQWMMRITAYADRLDDLDVLDWPEQV
KTMQRNWIGRSTGAVALFSARAASDDGFEVDIEVF'TTRPDTLFGATYLVLAPEHDLVDEL
VAASWPAGVNPLWTYGGGTPGEAIAAYRRAIAAKSDLERQESREKTGVFLGSYAINPANG
EPVPIFIADYVLAGYGTGAIMAVPGHDQRDWFARAFGLPIVEVIAGGNISESAYTGDI
LVNSDYLNMGMSVPAAKRAIVDRLESAGRGRARIEFKLRDWLFARQRYWGEPPPIVYDSG
RPHALDEAALPVELPDVDPDYSVPLFDPDADSESPPLAKATEWVHVDLDDLDGDLKPYSR
DTNVMPOWAGSSWYELRYTDPHNSERFCAKENEAYWMGPRPAEHGPDPPGGVDLYVGGAE
HAVLHLLYSREFWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGD
```

RFVYPGPDGEVEVFQEFQFKIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWAT
 KDVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAAALRNNTA
 TAKLIEYTNHLTKKHRDAVPRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHGPFPA
 DAAYLVDDETVEYFPVQVNGKVRGRVVVAADTDEETLKA AVL TDEKVOAFLAGATPRKVIVV
 AGRLVNLVI

Length=969

A.A.

Parameter
 Combined

MIN	AVG	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX
1 V	0.920	1.401	-0.177	-0.764	1.823	0.791	-2.086	1.823	
-2.086	0.273								
2 T	1.053	1.497	0.524	-0.586	1.777	0.750	-0.855	1.777	
-0.855	0.594								
3 E	1.382	1.633	1.178	-0.116	1.613	0.710	0.195	1.633	
-0.116	0.942								
4 S	1.514	1.417	1.636	0.190	1.294	0.650	0.195	1.636	
0.190	0.985								
5 P	2.109	1.189	1.748	0.250	1.257	0.648	-0.393	2.109	
-0.393	0.973								
6 T	1.913	1.457	1.795	-0.101	1.376	0.647	-0.214	1.913	
-0.214	0.982								
7 A	1.780	0.870	1.459	-0.475	0.966	0.048	-0.187	1.780	
-0.475	0.637								
8 G	1.729	1.229	1.300	-0.795	0.765	0.028	-0.347	1.729	
-0.795	0.558								
9 P	1.363	1.415	0.935	-0.961	0.483	0.010	0.022	1.415	
-0.961	0.467								
10 G	1.167	1.056	0.982	-1.008	0.601	0.009	0.201	1.167	
-1.008	0.430								
11 G	1.299	0.968	1.412	-1.166	1.075	0.634	1.210	1.412	
-1.166	0.776								
12 V	1.072	0.880	1.421	-1.248	1.121	0.634	0.200	1.421	
-1.248	0.583								
13 P	1.571	0.976	1.449	-1.170	1.166	1.104	-0.029	1.571	
-1.170	0.724								
14 R	1.843	1.157	1.730	-0.697	1.531	1.593	-0.038	1.843	
-0.697	1.017								
15 A	1.616	1.199	1.739	-0.132	1.576	1.593	-1.049	1.739	
-1.049	0.935								
16 D	2.482	1.738	2.132	0.699	1.905	2.080	-1.646	2.482	
-1.646	1.341								
17 D	2.760	1.103	2.038	1.202	1.786	2.081	-1.706	2.760	
-1.706	1.323								
18 A	3.127	0.922	1.879	1.686	1.631	1.946	-1.714	3.127	
-1.714	1.354								
19 D	2.760	1.736	1.758	1.803	1.622	1.947	-0.116	2.760	
-0.116	1.644								
20 S	2.260	0.790	1.730	1.772	1.576	1.477	0.113	2.260	
0.113	1.388								
21 D	1.894	0.748	1.889	1.170	1.731	1.613	0.121	1.894	
0.121	1.309								
22 V	1.641	-0.198	2.141	0.493	1.968	1.632	1.464	2.141	
-0.198	1.306								

23 P	1.274	0.389	2.300	-0.543	2.123	1.768	1.472	2.300
-0.543	1.255							
24 R	0.743	0.031	2.403	-1.188	2.205	1.767	1.644	2.403
-1.188	1.086							
25 Y	0.440	-0.208	2.328	-1.570	2.041	1.298	1.694	2.328
-1.570	0.860							
26 R	0.806	-0.005	2.449	-1.515	2.050	1.297	0.095	2.449
-1.515	0.740							
27 Y	1.167	-0.819	2.533	-1.481	2.142	1.877	-0.151	2.533
-1.481	0.753							
28 T	0.319	-0.412	2.019	-1.446	1.677	1.258	0.284	2.019
-1.446	0.528							
29 A	0.572	-0.090	1.767	-1.693	1.440	1.239	-1.058	1.767
-1.693	0.311							
30 E	0.440	-0.294	1.337	-1.989	0.966	0.614	-2.067	1.337
-2.067	-0.142							
31 L	0.825	-0.294	1.515	-2.261	1.203	1.219	-2.400	1.515
-2.400	-0.028							
32 A	-0.085	0.724	1.234	-2.433	1.057	1.205	-2.006	1.234
-2.433	-0.043							
33 A	0.275	1.215	1.561	-2.489	1.422	1.804	-1.022	1.804
-2.489	0.395							
34 R	0.048	0.712	1.664	-2.572	1.531	1.830	-0.997	1.830
-2.572	0.317							
35 L	0.958	0.389	1.945	-2.478	1.677	1.844	-1.391	1.945
-2.478	0.421							
36 E	0.193	1.169	1.963	-2.334	1.695	1.869	-0.358	1.963
-2.334	0.600							
37 R	0.440	1.203	2.290	-1.957	2.069	1.912	0.815	2.290
-1.957	0.967							
38 T	0.667	-0.114	2.188	-1.666	1.959	1.887	0.790	2.188
-1.666	0.816							
39 W	1.691	-0.605	2.571	-1.011	2.260	1.922	0.242	2.571
-1.011	1.010							
40 Q	0.566	0.712	2.262	-0.555	1.914	1.347	0.290	2.262
-0.555	0.934							
41 E	0.433	0.017	1.832	0.015	1.440	0.723	-0.719	1.832
-0.719	0.534							
42 N	0.370	0.069	2.066	-0.059	1.759	1.328	-0.761	2.066
-0.761	0.682							
43 W	0.421	-0.050	1.963	-0.523	1.750	1.308	-0.348	1.963
-0.523	0.646							
44 A	0.402	0.279	1.627	-1.429	1.330	1.265	-0.511	1.627
-1.429	0.423							
45 R	0.237	0.888	1.496	-1.844	1.121	0.686	-0.444	1.496
-1.844	0.306							
46 L	-0.787	-0.021	1.132	-1.949	0.765	0.649	-0.080	1.132
-1.949	-0.042							
47 G	0.288	0.542	1.412	-0.995	1.057	0.665	-0.215	1.412
-0.995	0.393							
48 T	-0.079	0.523	1.290	-0.084	1.048	0.666	1.384	1.384
-0.084	0.678							
49 F	-0.212	0.391	1.103	0.863	0.847	0.061	1.605	1.605
-0.212	0.665							
50 N	0.813	0.469	1.487	1.529	1.148	0.096	1.057	1.529
0.096	0.943							
51 V	0.585	0.487	1.739	1.889	1.467	0.115	1.276	1.889
0.115	1.080							
52 P	0.022	1.439	1.421	1.930	1.303	0.096	1.824	1.930

0.022	1.148							
53 N	0.964	0.876	1.477	1.737	1.303	0.092	1.573	1.737
0.092	1.146							
54 P	0.933	0.267	1.328	1.106	1.148	0.072	1.846	1.846
0.072	0.957							
55 V	0.585	0.267	1.365	0.374	1.166	0.075	1.693	1.693
0.075	0.789							
56 G	0.585	0.722	1.122	-0.242	0.893	0.056	0.462	1.122
-0.242	0.514							
57 S	0.275	0.634	1.066	-0.644	0.856	0.035	0.795	1.066
-0.644	0.431							
58 L	0.275	0.405	1.066	-0.650	0.856	0.035	0.795	1.066
-0.650	0.398							
59 A	1.141	0.610	1.459	-0.288	1.185	0.522	0.198	1.459
-0.288	0.689							
60 P	1.141	0.610	1.459	0.192	1.185	0.522	0.198	1.459
0.192	0.758							
61 P	0.863	0.155	1.309	0.482	1.030	0.502	-0.972	1.309
-0.972	0.481							
62 D	1.578	0.155	1.393	0.347	1.020	0.497	-2.417	1.578
-2.417	0.367							
63 G	1.211	0.155	1.272	-0.321	1.011	0.498	-0.818	1.272
-0.818	0.430							
64 A	1.211	0.067	1.272	-1.044	1.011	0.498	-0.818	1.272
-1.044	0.314							
65 A	1.710	0.898	1.300	-1.125	1.057	0.968	-1.047	1.710
-1.125	0.537							
66 V	1.710	0.694	1.300	-0.514	1.057	0.968	-1.047	1.710
-1.047	0.595							
67 P	1.710	0.616	1.758	0.383	1.741	1.563	-0.983	1.758
-0.983	0.970							
68 D	0.996	0.161	1.674	0.885	1.750	1.568	0.462	1.750
0.161	1.071							
69 D	0.281	0.113	1.608	0.643	1.704	1.572	1.724	1.724
0.113	1.092							
70 K	0.281	0.113	1.608	-0.155	1.704	1.572	1.724	1.724
-0.155	0.978							
71 L	0.528	-0.833	1.692	-0.878	1.804	1.596	1.667	1.804
-0.878	0.797							
72 F	0.528	-0.803	1.692	-0.973	1.804	1.596	1.667	1.804
-0.973	0.787							
73 V	-0.370	-0.270	1.412	-0.811	1.531	1.124	1.621	1.621
-0.811	0.605							
74 Q	-1.312	-0.581	0.898	-0.365	0.847	0.534	1.807	1.807
-1.312	0.261							
75 D	-0.597	-0.713	1.225	-0.175	1.112	0.547	1.592	1.592
-0.713	0.427							
76 M	-0.136	-0.396	1.543	-0.233	1.394	0.562	1.673	1.673
-0.396	0.630							
77 F	0.231	0.345	1.907	-0.188	1.677	0.580	1.304	1.907
-0.188	0.837							
78 P	0.263	1.095	1.730	0.085	1.458	0.558	1.301	1.730
0.085	0.927							
79 Y	-0.009	1.363	1.449	0.254	1.093	0.069	1.310	1.449
-0.009	0.790							
80 P	0.749	1.565	1.786	0.423	1.412	0.651	1.339	1.786
0.423	1.132							
81 S	1.691	1.297	1.842	0.101	1.412	0.647	1.088	1.842
0.101	1.154							

82 G	0.977	0.345	1.515	-0.593	1.148	0.633	1.303	1.515
-0.593	0.761							
83 E	1.230	0.345	1.421	-0.888	1.084	1.234	1.238	1.421
-0.888	0.809							
84 G	0.863	-0.140	1.057	-0.952	0.802	1.216	1.607	1.607
-0.952	0.636							
85 L	0.813	-0.408	0.898	-0.572	0.601	1.196	1.447	1.447
-0.572	0.568							
86 H	0.585	-0.408	1.066	0.079	0.820	1.816	1.714	1.816
-0.408	0.810							
87 V	0.225	0.129	0.982	0.574	0.729	1.236	1.961	1.961
0.129	0.834							
88 G	-0.717	-0.182	0.907	0.784	0.784	1.241	2.395	2.395
-0.717	0.745							
89 H	0.225	-1.133	0.982	0.833	0.729	1.236	1.961	1.961
-1.133	0.690							
90 P	-0.028	-1.224	1.075	0.287	0.793	0.635	2.025	2.025
-1.224	0.509							
91 L	-0.300	-1.091	1.057	-0.501	0.784	0.635	1.758	1.758
-1.091	0.334							
92 G	-0.528	-0.348	1.066	-1.291	0.829	0.635	0.748	1.066
-1.291	0.159							
93 Y	-0.332	-1.071	1.103	-1.873	0.811	0.035	0.521	1.103
-1.873	-0.115							
94 I	0.168	-1.071	1.132	-1.700	0.856	0.505	0.293	1.132
-1.700	0.026							
95 A	0.515	-0.747	1.094	-1.184	0.838	0.501	0.446	1.094
-1.184	0.209							
96 T	0.035	0.067	1.356	-0.522	1.121	0.521	0.778	1.356
-0.522	0.479							
97 D	0.288	-0.831	1.103	-0.304	0.884	0.501	-0.564	1.103
-0.831	0.154							
98 V	1.059	-1.544	1.674	-0.552	1.376	1.124	-0.887	1.674
-1.544	0.321							
99 Y	0.806	-0.635	1.926	-1.146	1.613	1.144	0.456	1.926
-1.146	0.595							
100A	-0.104	-0.342	1.664	-1.548	1.412	1.128	0.666	1.664
-1.548	0.411							
101R	-0.471	-0.438	1.823	-1.771	1.567	1.264	0.674	1.823
-1.771	0.378							
102Y	-0.503	-0.625	1.935	-1.721	1.622	1.279	0.030	1.935
-1.721	0.288							
103F	-0.616	0.596	1.561	-1.854	1.376	1.261	0.287	1.561
-1.854	0.373							
104R	-0.389	1.379	1.552	-2.111	1.330	1.261	1.297	1.552
-2.111	0.617							
105M	-0.389	0.469	1.552	-2.374	1.330	1.261	1.297	1.552
-2.374	0.450							
106V	0.174	0.379	1.599	-1.997	1.403	1.283	0.852	1.599
-1.997	0.528							
107G	0.522	0.566	1.543	-1.418	1.440	1.280	1.190	1.543
-1.418	0.732							
108R	-0.325	-0.062	1.029	-0.589	0.975	0.661	1.625	1.625
-0.589	0.473							
109N	0.073	-1.079	1.197	0.139	1.103	1.264	1.948	1.948
-1.079	0.663							
110V	0.440	-1.061	1.318	0.348	1.112	1.262	0.349	1.318
-1.061	0.538							
111L	-0.503	-1.140	1.244	0.243	1.166	1.267	0.784	1.267

-1.140	0.437							
112H	-0.408	-0.396	0.804	-0.008	0.647	0.643	0.785	0.804
-0.408	0.295							
113A	-1.432	-0.486	0.440	-0.566	0.291	0.606	1.149	1.149
-1.432	0.000							
114L	-0.566	-0.661	0.832	-0.714	0.619	1.094	0.551	1.094
-0.714	0.165							
115G	0.149	0.171	0.917	-0.595	0.610	1.088	-0.894	1.088
-0.894	0.207							
116F	-0.566	-0.661	0.692	-0.308	0.392	0.473	-0.910	0.692
-0.910	-0.127							
117D	-0.338	-0.128	0.683	-0.040	0.346	0.473	0.101	0.683
-0.338	0.157							
118A	-0.338	-0.667	0.683	-0.223	0.346	0.473	0.101	0.683
-0.667	0.054							
119F	-0.566	-0.092	0.935	-0.616	0.665	0.492	0.320	0.935
-0.616	0.163							
120G	0.149	0.574	1.001	-0.983	0.711	0.487	-0.941	1.001
-0.983	0.142							
121L	0.010	-0.460	1.057	-1.245	0.756	0.598	-0.958	1.057
-1.245	-0.035							
122P	0.256	-0.256	1.384	-1.223	1.130	0.640	0.215	1.384
-1.223	0.307							
123A	0.718	-0.711	1.702	-1.272	1.412	0.656	0.296	1.702
-1.272	0.400							
124E	0.490	-0.220	1.711	-1.310	1.458	0.656	-0.714	1.711
-1.310	0.296							
125Q	0.838	-0.304	1.674	-1.324	1.440	0.652	-0.561	1.674
-1.324	0.345							
126Y	1.084	-0.168	1.758	-1.400	1.540	0.675	-0.617	1.758
-1.400	0.410							
127A	1.280	0.730	1.954	-1.339	1.695	0.695	0.434	1.954
-1.339	0.778							
128V	1.148	0.820	1.617	-1.192	1.285	0.096	0.460	1.617
-1.192	0.605							
129Q	1.097	1.275	1.487	-0.929	1.066	0.073	0.338	1.487
-0.929	0.630							
130T	1.350	1.597	1.393	-0.349	1.002	0.674	0.273	1.597
-0.349	0.849							
131G	1.350	1.597	1.636	0.305	1.276	0.693	1.503	1.636
0.305	1.194							
132T	1.849	1.784	2.188	0.860	1.759	1.316	0.913	2.188
0.860	1.524							
133H	1.799	1.784	2.057	1.075	1.540	1.293	0.791	2.057
0.791	1.477							
134P	1.736	2.269	2.290	0.596	1.859	1.898	0.749	2.290
0.596	1.628							
135R	1.704	1.910	2.496	-0.101	2.060	1.918	0.790	2.496
-0.101	1.539							
136T	1.868	1.706	2.627	-0.839	2.269	2.497	0.723	2.627
-0.839	1.550							
137R	1.868	1.119	2.468	-1.312	2.096	1.878	-0.555	2.468
-1.312	1.080							
138T	2.178	0.209	2.524	-1.097	2.132	1.899	-0.888	2.524
-1.097	0.994							
139E	1.679	0.327	1.973	-0.670	1.649	1.276	-0.298	1.973
-0.670	0.848							
140A	1.116	-0.422	1.655	-0.209	1.485	1.258	0.250	1.655
-0.422	0.733							

141N	1.293	0.391	1.524	0.443	1.321	0.674	0.138	1.524
0.138	0.826							
142V	0.383	0.596	1.262	0.724	1.121	0.658	0.348	1.262
0.348	0.727							
143V	0.155	1.183	1.365	0.841	1.230	0.683	0.373	1.365
0.155	0.833							
144N	0.288	1.074	1.795	0.666	1.704	1.308	1.383	1.795
0.288	1.174							
145F	0.225	1.093	1.823	-0.013	1.768	1.310	1.659	1.823
-0.013	1.123							
146R	-0.123	2.080	1.860	-0.818	1.786	1.313	1.505	2.080
-0.818	1.086							
147R	0.471	1.062	1.973	-1.394	1.750	1.312	0.917	1.973
-1.394	0.870							
148Q	0.294	0.876	2.103	-1.896	1.914	1.896	1.029	2.103
-1.896	0.888							
149L	0.294	0.211	2.085	-2.008	1.968	1.897	1.213	2.085
-2.008	0.809							
150G	0.389	1.042	1.646	-2.128	1.449	1.272	1.214	1.646
-2.128	0.698							
151R	-0.458	0.505	1.150	-2.106	0.929	0.652	1.466	1.466
-2.106	0.305							
152L	-0.477	0.231	0.814	-2.001	0.510	0.610	1.303	1.303
-2.001	0.141							
153G	0.237	1.291	1.057	-1.260	0.674	1.224	1.135	1.291
-1.260	0.623							
154F	0.509	1.477	1.337	-0.289	1.039	1.713	1.126	1.713
-0.289	0.987							
155G	0.655	2.465	1.057	0.978	0.720	1.108	1.287	2.465
0.655	1.181							
156H	1.502	2.693	1.571	1.765	1.185	1.728	0.851	2.693
0.851	1.613							
157D	1.407	2.429	2.010	1.800	1.704	2.352	0.850	2.429
0.850	1.793							
158S	2.399	2.745	2.225	1.095	1.905	2.368	0.758	2.745
0.758	1.928							
159R	1.457	2.381	2.169	0.264	1.905	2.372	1.009	2.381
0.264	1.651							
160R	1.736	2.058	2.160	-0.106	1.886	1.772	0.902	2.160
-0.106	1.487							
161S	1.432	1.784	2.085	0.172	1.722	1.304	0.951	2.085
0.172	1.350							
162F	1.350	0.832	2.132	0.658	1.722	1.303	0.832	2.132
0.658	1.261							
163S	1.717	1.545	1.973	1.091	1.567	1.168	0.824	1.973
0.824	1.412							
164T	1.217	0.515	1.421	1.115	1.084	0.545	1.414	1.421
0.515	1.044							
165T	1.438	-0.382	1.543	1.064	1.248	1.013	1.245	1.543
-0.382	1.024							
166D	1.438	-0.060	1.543	0.995	1.248	1.013	1.245	1.543
-0.060	1.060							
167V	0.907	-1.101	1.646	0.869	1.330	1.013	1.417	1.646
-1.101	0.869							
168D	0.844	-0.514	1.879	0.502	1.649	1.617	1.376	1.879
-0.514	1.050							
169F	-0.117	-0.562	1.702	-0.071	1.513	1.623	1.357	1.702
-0.562	0.778							
170Y	-0.420	-0.891	1.627	-0.853	1.349	1.154	1.407	1.627

-0.891	0.482							
171R	0.193	-0.809	2.075	-1.234	1.731	1.195	0.982	2.075
-1.234	0.590							
172W	-1.072	-1.797	1.823	-1.445	1.431	0.731	1.013	1.823
-1.797	0.098							
173T	-0.996	-1.498	1.748	-1.416	1.458	0.728	1.083	1.748
-1.498	0.158							
174Q	-1.457	-1.498	1.431	-1.426	1.175	0.713	1.002	1.431
-1.498	-0.009							
175W	-2.304	-2.314	0.917	-1.675	0.711	0.094	1.438	1.438
-2.314	-0.448							
176I	-1.293	-2.217	1.225	-1.760	1.066	0.111	1.579	1.579
-2.217	-0.184							
177F	-2.127	-1.284	0.889	-1.864	0.893	0.093	1.860	1.860
-2.127	-0.220							
178L	-2.627	-1.109	0.814	-1.760	0.756	0.070	2.029	2.029
-2.627	-0.261							
179Q	-1.552	-1.408	1.094	-1.339	1.048	0.085	1.894	1.894
-1.552	-0.025							
180I	-0.913	-2.073	1.234	-0.808	1.066	0.084	0.562	1.234
-2.073	-0.121							
181Y	-0.964	-1.210	1.318	-0.253	1.130	0.105	0.333	1.318
-1.210	0.066							
182N	-0.964	-0.312	1.337	0.123	1.075	0.103	0.149	1.337
-0.964	0.216							
183A	-0.711	-0.430	1.281	0.151	1.020	0.550	-0.023	1.281
-0.711	0.263							
184W	0.123	-0.430	1.617	0.091	1.194	0.568	-0.304	1.617
-0.430	0.408							
185F	0.572	0.682	1.561	0.326	1.112	0.569	-0.595	1.561
-0.595	0.604							
186D	0.263	1.688	1.262	0.369	0.802	0.528	-1.492	1.688
-1.492	0.488							
187T	0.572	1.149	1.561	0.781	1.112	0.569	-0.595	1.561
-0.595	0.735							
188T	1.565	1.471	1.991	0.703	1.731	1.138	-0.553	1.991
-0.553	1.150							
189A	2.279	1.339	2.057	0.640	1.777	1.134	-1.814	2.279
-1.814	1.059							
190N	1.913	1.014	2.216	0.153	1.932	1.270	-1.806	2.216
-1.806	0.956							
191K	1.717	1.261	2.262	-0.315	2.050	1.269	-1.627	2.262
-1.627	0.945							
192A	0.882	1.004	1.926	-1.128	1.877	1.251	-1.346	1.926
-1.346	0.638							
193R	1.160	0.800	2.075	-1.225	2.032	1.271	-0.176	2.075
-1.225	0.848							
194P	1.211	-0.110	2.103	-1.366	2.087	1.830	-0.089	2.103
-1.366	0.809							
195I	0.269	-0.468	1.571	-1.045	1.458	1.240	0.281	1.571
-1.045	0.472							
196S	-0.098	0.431	1.449	-1.124	1.449	1.242	1.880	1.880
-1.124	0.747							
197E	-0.231	-0.599	1.019	-1.364	0.975	0.617	0.871	1.019
-1.364	0.184							
198L	0.130	-0.599	1.103	-1.886	1.066	1.198	0.624	1.198
-1.886	0.234							
199V	0.054	0.461	1.178	-1.973	1.039	1.200	0.554	1.200
-1.973	0.359							

200A	0.136	1.185	1.356	-2.070	1.248	1.780	0.368	1.780
-2.070	0.572							
201E	0.054	1.185	1.178	-1.585	1.039	1.200	0.554	1.200
-1.585	0.518							
202F	0.996	1.423	1.253	-1.147	0.984	1.195	0.119	1.423
-1.147	0.689							
203E	1.363	1.633	1.375	-0.739	0.993	1.193	-1.480	1.633
-1.480	0.620							
204S	1.495	0.854	1.804	-0.741	1.467	1.818	-0.470	1.818
-0.741	0.890							
205G	1.091	0.538	1.262	-0.839	1.011	1.236	0.178	1.262
-0.839	0.640							
206A	1.091	0.538	1.244	-1.239	1.066	1.237	0.362	1.244
-1.239	0.614							
207R	1.230	1.165	1.188	-1.022	1.020	1.127	0.379	1.230
-1.022	0.727							
208C	1.179	1.165	1.029	-0.824	0.820	1.107	0.220	1.179
-0.824	0.671							
209L	1.179	1.668	1.029	-0.368	0.820	1.107	0.220	1.668
-0.368	0.808							
210D	1.312	1.369	1.459	-0.398	1.294	1.731	1.229	1.731
-0.398	1.142							
211G	1.679	0.830	1.300	-0.417	1.139	1.596	1.221	1.679
-0.417	1.049							
212G	0.958	1.034	1.533	-0.800	1.248	1.603	0.621	1.603
-0.800	0.885							
213R	1.672	0.203	1.617	-0.772	1.239	1.598	-0.824	1.672
-0.824	0.676							
214D	1.401	-0.120	1.795	-1.021	1.558	1.703	-0.750	1.795
-1.021	0.652							
215W	0.459	-0.659	1.720	-1.279	1.613	1.709	-0.316	1.720
-1.279	0.464							
216A	0.427	0.471	1.926	-1.682	1.813	1.729	-0.275	1.926
-1.682	0.630							
217K	0.294	1.046	1.496	-1.871	1.339	1.104	-1.284	1.496
-1.871	0.304							
218L	0.022	1.028	1.216	-1.902	0.975	0.615	-1.275	1.216
-1.902	0.097							
219T	1.148	1.233	1.524	-1.712	1.321	1.189	-1.324	1.524
-1.712	0.483							
220A	1.280	1.281	1.954	-1.723	1.795	1.814	-0.314	1.954
-1.723	0.870							
221G	1.053	1.185	1.505	-1.929	1.157	1.219	-1.390	1.505
-1.929	0.400							
222E	2.267	0.233	1.860	-1.856	1.467	1.703	-1.834	2.267
-1.856	0.549							
223R	1.704	0.197	1.543	-1.694	1.303	1.685	-1.286	1.704
-1.694	0.493							
224A	1.065	-0.042	1.403	-1.290	1.285	1.686	0.046	1.686
-1.290	0.593							
225D	1.337	-0.448	1.683	-0.862	1.649	2.175	0.037	2.175
-0.862	0.796							
226V	1.337	-0.174	1.683	-0.775	1.649	2.175	0.037	2.175
-0.775	0.848							
227I	0.952	-0.282	1.505	-0.738	1.412	1.570	0.370	1.570
-0.738	0.684							
228D	1.084	-0.054	1.935	-0.852	1.886	2.195	1.379	2.195
-0.852	1.082							
229E	-0.129	-0.999	1.580	-1.174	1.576	1.711	1.823	1.823

-1.174	0.627							
230Y	-0.129	-0.761	1.580	-1.606	1.576	1.711	1.823	1.823
-1.606	0.599							
231R	0.256	-0.354	1.973	-1.903	1.832	1.729	1.834	1.973
-1.903	0.767							
232L	-0.111	-0.629	2.132	-2.253	1.987	1.864	1.842	2.132
-2.253	0.690							
233V	-0.471	0.431	1.804	-2.182	1.622	1.265	0.858	1.804
-2.182	0.475							
234Y	0.281	0.323	1.823	-1.877	1.704	1.734	0.517	1.823
-1.877	0.644							
235R	0.427	0.634	1.543	-1.231	1.385	1.130	0.677	1.543
-1.231	0.652							
236A	0.427	0.429	1.543	-0.497	1.385	1.130	0.677	1.543
-0.497	0.728							
237D	0.427	-0.074	1.543	0.073	1.385	1.130	0.677	1.543
-0.074	0.737							
238S	0.990	-0.576	1.589	0.464	1.458	1.151	0.232	1.589
-0.576	0.758							
239L	0.092	-1.073	1.178	0.384	1.002	0.552	0.256	1.178
-1.073	0.341							
240V	0.048	-0.242	0.963	0.539	0.911	0.569	1.888	1.888
-0.242	0.668							
241N	-0.452	-0.350	0.935	0.631	0.866	0.099	2.117	2.117
-0.452	0.549							
242W	-0.503	-0.332	0.776	0.676	0.665	0.079	1.957	1.957
-0.503	0.474							
243C	-0.503	0.662	0.776	0.384	0.665	0.079	1.957	1.957
-0.503	0.574							
244P	0.092	0.529	0.889	-0.109	0.629	0.078	1.369	1.369
-0.109	0.497							
245G	-0.022	-0.034	0.786	-0.839	0.474	0.057	1.523	1.523
-0.839	0.278							
246L	0.376	-0.661	0.646	-1.175	0.446	0.034	2.089	2.089
-1.175	0.251							
247G	-0.294	0.153	0.776	-1.425	0.547	0.021	1.902	1.902
-1.425	0.240							
248T	-0.294	0.101	0.533	-1.576	0.273	0.002	0.672	0.672
-1.576	-0.041							
249V	-0.212	0.185	0.842	-1.277	0.629	0.043	0.558	0.842
-1.277	0.110							
250L	0.863	0.185	1.253	-0.963	0.984	0.637	0.097	1.253
-0.963	0.437							
251A	0.996	0.880	1.589	-0.411	1.394	1.236	0.071	1.589
-0.411	0.822							
252N	0.433	0.880	1.272	-0.260	1.230	1.218	0.619	1.272
-0.260	0.770							
253E	0.996	0.810	1.589	-0.412	1.394	1.236	0.071	1.589
-0.412	0.812							
254E	1.710	0.862	1.674	-0.987	1.385	1.231	-1.375	1.710
-1.375	0.643							
255V	2.210	1.101	1.945	-1.006	1.704	1.720	-0.373	2.210
-1.006	1.043							
256T	2.128	2.052	1.636	-0.958	1.349	1.679	-0.260	2.128
-0.958	1.089							
257A	1.900	2.100	1.739	-0.519	1.458	1.705	-0.235	2.100
-0.519	1.164							
258D	1.818	2.914	1.561	-0.267	1.248	1.125	-0.049	2.914
-0.267	1.193							

259G	2.684	3.002	1.954	-0.033	1.576	1.612	-0.646	3.002
-0.646	1.450							
260R	2.621	2.984	2.188	0.049	1.895	2.217	-0.688	2.984
-0.688	1.609							
261S	2.848	1.996	2.178	0.285	1.850	2.217	0.323	2.848
0.285	1.671							
262D	2.659	1.499	2.206	0.476	1.841	1.769	0.219	2.659
0.219	1.524							
263R	1.717	0.864	2.150	0.601	1.841	1.773	0.469	2.150
0.469	1.345							
264G	1.584	-0.124	1.963	0.963	1.640	1.167	0.690	1.963
-0.124	1.126							
265N	0.939	0.063	1.692	1.071	1.476	1.149	1.119	1.692
0.063	1.073							
266F	-0.275	0.285	1.356	0.963	1.112	0.664	1.379	1.379
-0.275	0.783							
267P	-0.275	1.273	1.356	0.346	1.112	0.664	1.379	1.379
-0.275	0.836							
268V	-0.275	0.710	1.814	-0.445	1.795	1.259	1.444	1.814
-0.445	0.900							
269F	-0.452	1.619	1.945	-1.424	1.959	1.843	1.556	1.959
-1.424	1.007							
270R	-0.452	2.285	1.926	-1.982	2.014	1.844	1.740	2.285
-1.982	1.053							
271K	-0.319	0.968	2.113	-2.488	2.214	2.450	1.519	2.450
-2.488	0.922							
272R	0.294	0.023	2.561	-2.549	2.597	2.491	1.094	2.597
-2.549	0.930							
273L	0.244	-0.905	2.646	-2.511	2.661	2.512	0.865	2.661
-2.511	0.787							
274R	-0.288	0.113	2.206	-2.299	2.233	1.904	0.810	2.233
-2.299	0.669							
275Q	-0.913	-1.025	1.748	-2.299	1.640	1.327	0.690	1.748
-2.299	0.167							
276W	-0.913	-1.025	1.748	-2.514	1.640	1.327	0.690	1.748
-2.514	0.136							
277M	-0.838	-0.522	1.692	-2.932	1.613	1.323	0.577	1.692
-2.932	0.130							
278M	-0.774	-0.815	1.459	-3.036	1.294	0.718	0.619	1.459
-3.036	-0.077							
279R	-1.021	-0.701	1.132	-2.950	0.920	0.676	-0.555	1.132
-2.950	-0.357							
280I	-0.509	-0.975	1.365	-2.445	1.139	0.670	-0.245	1.365
-2.445	-0.143							
281T	-0.111	0.163	1.375	-1.980	1.093	0.653	-1.200	1.375
-1.980	-0.001							
282A	0.787	-0.532	1.655	-1.374	1.367	1.125	-1.154	1.655
-1.374	0.268							
283Y	0.787	-0.737	1.655	-1.075	1.367	1.125	-1.154	1.655
-1.154	0.281							
284A	0.711	0.209	1.711	-0.773	1.394	1.128	-1.040	1.711
-1.040	0.477							
285D	-0.199	0.748	1.431	-0.952	1.248	1.114	-0.646	1.431
-0.952	0.392							
286R	0.300	0.005	1.702	-1.005	1.567	1.603	0.355	1.702
-1.005	0.647							
287L	1.053	-0.270	1.720	-0.917	1.649	2.072	0.014	2.072
-0.917	0.760							
288L	0.338	-0.162	1.636	-0.388	1.658	2.078	1.459	2.078

-0.388	0.946							
289D	0.338	-0.162	1.636	0.359	1.658	2.078	1.459	2.078
-0.162	1.052							
290D	-0.161	-0.162	1.085	0.794	1.175	1.454	2.049	2.049
-0.162	0.891							
291L	-0.161	-1.204	1.085	0.623	1.175	1.454	2.049	2.049
-1.204	0.717							
292D	1.053	-0.641	1.440	0.263	1.485	1.938	1.605	1.938
-0.641	1.020							
293V	-0.212	-0.605	1.188	-0.246	1.185	1.474	1.636	1.636
-0.605	0.631							
294L	-0.711	-0.017	1.160	-0.379	1.139	1.004	1.865	1.865
-0.711	0.580							
295D	0.364	0.091	1.571	-0.348	1.494	1.598	1.403	1.598
-0.348	0.882							
296W	0.111	0.383	1.627	-0.420	1.549	1.152	1.576	1.627
-0.420	0.854							
297P	0.111	1.377	1.627	-0.643	1.549	1.152	1.576	1.627
-0.643	0.964							
298E	1.053	0.904	2.160	-0.920	2.178	1.741	1.206	2.178
-0.920	1.189							
299Q	0.749	0.820	2.085	-1.320	2.014	1.272	1.256	2.085
-1.320	0.982							
300V	1.116	1.143	2.057	-1.536	2.041	1.264	1.178	2.057
-1.536	1.038							
301K	1.363	1.848	2.141	-1.671	2.142	1.288	1.121	2.142
-1.671	1.176							
302T	1.135	0.513	2.244	-1.729	2.251	1.313	1.147	2.251
-1.729	0.982							
303M	1.198	-0.302	2.216	-1.316	2.187	1.311	0.871	2.216
-1.316	0.881							
304Q	0.800	0.439	2.356	-0.893	2.214	1.335	0.304	2.356
-0.893	0.936							
305R	-0.066	0.762	1.767	-0.341	1.558	0.742	0.561	1.767
-0.341	0.712							
306N	-0.035	0.804	1.561	-0.355	1.358	0.722	0.520	1.561
-0.355	0.654							
307W	0.496	0.686	2.001	-0.783	1.786	1.329	0.575	2.001
-0.783	0.870							
308I	0.528	1.816	1.823	-1.377	1.567	1.307	0.571	1.823
-1.377	0.891							
309G	0.591	2.140	1.589	-1.411	1.248	0.702	0.613	2.140
-1.411	0.782							
310R	0.509	1.417	1.281	-1.141	0.893	0.662	0.726	1.417
-1.141	0.621							
311S	1.274	0.604	1.262	-0.627	0.875	0.636	-0.306	1.274
-0.627	0.531							
312T	1.546	-0.456	1.281	-0.538	0.884	0.636	-0.039	1.546
-0.538	0.473							
313G	1.318	-1.121	1.290	-1.007	0.929	0.636	-1.050	1.318
-1.121	0.142							
314A	0.471	-0.893	0.776	-1.545	0.465	0.017	-0.614	0.776
-1.545	-0.189							
315V	-0.521	-0.893	0.561	-1.931	0.264	0.001	-0.523	0.561
-1.931	-0.434							
316A	-0.439	0.017	0.515	-1.729	0.264	0.001	-0.403	0.515
-1.729	-0.254							
317L	-0.667	0.017	0.524	-1.257	0.310	0.001	-1.414	0.524
-1.414	-0.355							

318F	-0.534	0.221	0.954	-0.782	0.784	0.626	-0.405	0.954
-0.782	0.123							
319S	-0.167	1.251	1.075	-0.703	0.793	0.624	-2.003	1.251
-2.003	0.124							
320A	-0.167	0.934	1.075	-1.095	0.793	0.624	-2.003	1.075
-2.003	0.023							
321R	0.825	1.473	1.309	-1.400	0.938	0.639	-2.279	1.473
-2.279	0.215							
322A	2.039	1.287	1.646	-1.191	1.303	1.124	-2.539	2.039
-2.539	0.524							
323A	2.260	1.113	1.767	-0.294	1.467	1.592	-2.707	2.260
-2.707	0.743							
324S	2.488	1.688	1.758	0.799	1.422	1.592	-1.697	2.488
-1.697	1.150							
325D	1.641	0.736	1.262	1.510	0.902	0.972	-1.445	1.641
-1.445	0.797							
326D	2.001	0.736	1.589	1.266	1.267	1.572	-0.461	2.001
-0.461	1.138							
327G	1.634	-0.128	1.468	0.471	1.257	1.573	1.138	1.634
-0.128	1.059							
328F	1.856	-0.180	1.589	-0.316	1.422	2.042	0.969	2.042
-0.316	1.055							
329E	0.718	-0.102	1.178	-0.847	1.084	1.555	1.299	1.555
-0.847	0.698							
330V	0.579	-0.851	1.234	-1.014	1.130	1.665	1.282	1.665
-1.014	0.575							
331D	-0.016	-0.264	1.122	-1.148	1.166	1.667	1.871	1.871
-1.148	0.628							
332I	-0.016	-0.312	1.122	-1.390	1.166	1.667	1.871	1.871
-1.390	0.587							
333E	-0.180	0.826	0.991	-1.538	0.957	1.087	1.938	1.938
-1.538	0.583							
334V	0.383	0.610	1.309	-1.261	1.121	1.106	1.390	1.390
-1.261	0.665							
335F	0.016	1.245	1.468	-1.029	1.276	1.242	1.398	1.468
-1.029	0.802							
336T	0.655	1.910	1.851	-0.570	1.567	1.259	1.296	1.910
-0.570	1.138							
337T	0.794	1.215	1.795	-0.296	1.522	1.148	1.313	1.795
-0.296	1.070							
338R	1.356	0.550	2.113	0.027	1.686	1.166	0.765	2.113
0.027	1.095							
339P	1.356	0.363	2.094	0.286	1.741	1.168	0.949	2.094
0.286	1.137							
340D	0.446	0.005	1.832	0.442	1.540	1.152	1.160	1.832
0.005	0.939							
341T	0.477	-0.044	1.627	0.108	1.339	1.132	1.119	1.627
-0.044	0.823							
342L	0.345	-0.941	1.197	-0.413	0.866	0.507	0.110	1.197
-0.941	0.239							
343F	0.541	-0.941	1.150	-0.897	0.747	0.508	-0.069	1.150
-0.941	0.148							
344G	-0.212	-0.863	1.132	-1.151	0.665	0.039	0.272	1.132
-1.151	-0.017							
345A	-1.122	-1.695	0.851	-1.203	0.519	0.024	0.666	0.851
-1.695	-0.280							
346T	-0.774	-1.695	0.814	-1.227	0.501	0.020	0.820	0.820
-1.695	-0.220							
347Y	-0.774	-1.827	0.795	-1.499	0.556	0.022	1.003	1.003

-1.827	-0.246							
348L	-1.002	-0.845	0.804	-1.833	0.601	0.022	-0.007	0.804
-1.833	-0.323							
349V	-1.002	-0.550	1.047	-1.943	0.875	0.040	1.223	1.223
-1.943	-0.044							
350L	-0.838	0.085	1.178	-1.924	1.084	0.620	1.156	1.178
-1.924	0.195							
351A	-0.585	0.085	1.085	-1.250	1.020	1.221	1.091	1.221
-1.250	0.381							
352P	0.629	-0.011	1.440	-0.291	1.330	1.704	0.647	1.704
-0.291	0.778							
353E	0.281	0.169	1.477	0.633	1.349	1.708	0.494	1.708
0.169	0.873							
354H	0.629	0.169	1.440	1.084	1.330	1.704	0.647	1.704
0.169	1.001							
355D	1.129	-0.126	1.711	1.083	1.649	2.193	1.649	2.193
-0.126	1.327							
356L	1.489	-0.761	1.795	0.402	1.741	2.774	1.402	2.774
-0.761	1.263							
357V	0.414	-0.556	1.384	-0.114	1.385	2.179	1.864	2.179
-0.556	0.937							
358D	0.048	-0.460	1.103	-0.728	1.203	1.561	2.185	2.185
-0.728	0.702							
359E	-0.452	-0.144	0.832	-1.232	0.884	1.072	1.184	1.184
-1.232	0.306							
360L	0.263	-1.222	0.917	-1.700	0.875	1.067	-0.261	1.067
-1.700	-0.009							
361V	0.907	-0.659	1.188	-1.758	1.039	1.085	-0.690	1.188
-1.758	0.159							
362A	-0.357	-0.562	0.935	-1.703	0.738	0.622	-0.659	0.935
-1.703	-0.141							
363A	-0.717	0.065	0.851	-1.073	0.647	0.041	-0.413	0.851
-1.073	-0.086							
364S	-0.003	-0.032	0.935	-0.703	0.638	0.036	-1.858	0.935
-1.858	-0.141							
365W	0.591	-0.278	1.047	-0.554	0.601	0.034	-2.446	1.047
-2.446	-0.143							
366P	0.225	0.584	0.926	-0.826	0.592	0.036	-0.847	0.926
-0.847	0.098							
367A	0.534	0.021	1.225	-0.701	0.902	0.076	0.050	1.225
-0.701	0.301							
368G	0.256	-0.482	1.318	-0.470	1.020	0.075	0.110	1.318
-0.482	0.261							
369V	0.307	-0.619	1.216	0.258	1.011	0.055	0.523	1.216
-0.619	0.393							
370N	-0.458	-0.929	0.991	0.548	0.756	0.062	0.325	0.991
-0.929	0.185							
371P	-0.262	-0.911	1.188	0.407	0.911	0.082	1.376	1.376
-0.911	0.399							
372L	-0.743	-0.643	1.449	-0.307	1.194	0.101	1.708	1.708
-0.743	0.394							
373W	-0.148	0.189	1.561	-0.833	1.157	0.099	1.119	1.561
-0.833	0.449							
374T	-0.231	1.183	1.253	-1.215	0.802	0.059	1.232	1.253
-1.215	0.440							
375Y	-0.003	1.050	1.001	-1.252	0.483	0.040	1.013	1.050
-1.252	0.333							
376G	0.907	2.084	1.281	-1.213	0.629	0.054	0.619	2.084
-1.213	0.623							

377G	1.672	2.032	1.505	-1.065	0.884	0.048	0.816	2.032
-1.065	0.842							
378G	1.704	1.405	1.300	-0.866	0.683	0.028	0.776	1.704
-0.866	0.719							
379T	2.317	0.453	1.375	-0.647	0.811	0.608	0.417	2.317
-0.647	0.762							
380P	2.090	-0.038	1.384	-0.705	0.856	0.608	-0.593	2.090
-0.705	0.515							
381G	1.224	-0.396	1.253	-1.189	0.884	0.610	-0.272	1.253
-1.189	0.302							
382E	0.996	-1.430	1.262	-1.801	0.929	0.610	-1.282	1.262
-1.801	-0.102							
383A	0.800	-1.192	1.066	-2.333	0.774	0.590	-2.333	1.066
-2.333	-0.375							
384I	0.547	-0.378	1.075	-2.516	0.738	0.591	-2.221	1.075
-2.516	-0.309							
385A	0.452	-0.054	1.515	-2.443	1.257	1.215	-2.222	1.515
-2.443	-0.040							
386A	0.225	-0.378	1.617	-2.277	1.367	1.240	-2.197	1.617
-2.277	-0.058							
387Y	0.225	-0.378	1.617	-2.252	1.367	1.240	-2.197	1.617
-2.252	-0.054							
388R	0.225	0.029	1.617	-2.386	1.367	1.240	-2.197	1.617
-2.386	-0.015							
389R	0.225	0.047	1.617	-2.595	1.367	1.240	-2.197	1.617
-2.595	-0.042							
390A	0.225	0.089	1.617	-2.721	1.367	1.240	-2.197	1.617
-2.721	-0.054							
391I	0.705	0.628	1.814	-2.749	1.768	1.816	-2.464	1.816
-2.749	0.217							
392A	0.850	0.748	1.533	-2.372	1.449	1.211	-2.303	1.533
-2.372	0.159							
393A	1.217	1.323	1.375	-1.613	1.294	1.075	-2.311	1.375
-2.311	0.337							
394K	0.503	2.136	1.290	-0.761	1.303	1.081	-0.866	2.136
-0.866	0.669							
395S	1.502	1.796	1.758	-0.052	1.686	1.678	-1.214	1.796
-1.214	1.022							
396D	1.634	1.515	2.188	-0.080	2.160	2.303	-0.205	2.303
-0.205	1.359							
397L	1.881	1.832	2.515	-0.627	2.533	2.346	0.969	2.533
-0.627	1.635							
398E	2.014	2.850	2.393	-1.342	2.260	2.350	0.877	2.850
-1.342	1.629							
399R	2.014	2.850	2.393	-1.519	2.260	2.350	0.877	2.850
-1.519	1.604							
400Q	1.647	2.868	2.552	-1.423	2.415	2.486	0.886	2.868
-1.423	1.633							
401E	2.722	2.868	2.963	-1.028	2.770	3.080	0.424	3.080
-1.028	1.971							
402S	2.589	2.920	3.085	-1.093	3.044	3.075	0.516	3.085
-1.093	2.019							
403R	2.652	1.968	2.851	-1.277	2.725	2.471	0.557	2.851
-1.277	1.707							
404E	2.633	0.980	2.515	-1.641	2.306	2.428	0.394	2.633
-1.641	1.374							
405K	1.906	0.201	2.066	-1.639	1.932	1.830	1.009	2.066
-1.639	1.044							
406T	0.914	-0.003	1.851	-1.563	1.731	1.814	1.101	1.851

-1.563	0.835							
407G	0.067	0.361	1.337	-1.397	1.267	1.195	1.536	1.536
-1.397	0.624							
408V	-0.066	-0.673	1.001	-1.383	0.856	0.596	1.563	1.563
-1.383	0.271							
409F	-0.016	-0.576	0.702	-1.223	0.373	0.021	1.658	1.658
-1.223	0.134							
410L	-0.465	-0.727	0.758	-1.045	0.455	0.020	1.949	1.949
-1.045	0.135							
411G	-0.692	0.087	0.767	-0.731	0.501	0.020	0.939	0.939
-0.731	0.127							
412S	-0.964	-0.182	0.748	-0.680	0.492	0.021	0.672	0.748
-0.964	0.015							
413Y	0.060	-1.037	1.113	-0.578	0.847	0.057	0.308	1.113
-1.037	0.110							
414A	0.775	-0.021	1.440	-0.453	1.112	0.071	0.093	1.440
-0.453	0.431							
415I	0.547	0.606	1.449	0.010	1.157	0.071	-0.918	1.449
-0.918	0.417							
416N	0.579	1.505	1.599	0.763	1.312	0.091	-1.191	1.599
-1.191	0.665							
417P	1.059	1.255	1.337	1.266	1.030	0.072	-1.523	1.337
-1.523	0.642							
418A	1.420	0.800	1.664	1.289	1.394	0.671	-0.539	1.664
-0.539	0.957							
419N	2.058	1.159	2.047	1.022	1.686	0.689	-0.640	2.058
-0.640	1.146							
420G	1.382	0.225	1.627	0.259	1.367	0.650	0.061	1.627
0.061	0.796							
421E	1.382	-0.576	1.627	-0.241	1.367	0.650	0.061	1.627
-0.576	0.610							
422P	0.743	-1.476	1.487	-0.623	1.349	0.651	1.393	1.487
-1.476	0.503							
423V	-0.281	-1.835	1.122	-0.918	0.993	0.615	1.757	1.757
-1.835	0.208							
424P	-1.147	-1.200	0.991	-1.197	1.020	0.617	2.079	2.079
-1.200	0.166							
425I	-1.508	-1.965	0.664	-1.466	0.656	0.017	1.095	1.095
-1.965	-0.358							
426F	-1.008	-1.737	0.692	-1.640	0.701	0.487	0.866	0.866
-1.737	-0.234							
427I	-0.894	-1.767	1.066	-1.405	0.948	0.505	0.609	1.066
-1.767	-0.134							
428A	-1.261	-1.442	0.702	-1.057	0.665	0.487	0.978	0.978
-1.442	-0.133							
429D	-1.337	-0.815	0.758	-0.714	0.692	0.491	1.091	1.091
-1.337	0.024							
430Y	-0.623	-1.761	0.823	-0.909	0.738	0.487	-0.170	0.823
-1.761	-0.202							
431V	0.244	-0.727	0.954	-1.355	0.711	0.485	-0.491	0.954
-1.355	-0.026							
432L	-0.009	-0.140	1.206	-1.734	0.948	0.504	0.851	1.206
-1.734	0.232							
433A	-0.281	0.692	0.926	-1.935	0.583	0.015	0.860	0.926
-1.935	0.123							
434G	0.168	0.692	0.870	-1.663	0.501	0.016	0.569	0.870
-1.663	0.165							
435Y	0.762	-0.260	0.982	-1.369	0.465	0.015	-0.020	0.982
-1.369	0.082							

436G	1.476	0.033	1.066	-1.162	0.455	0.009	-1.465	1.476
-1.465	0.059							
437T	0.838	-0.595	0.926	-1.280	0.437	0.011	-0.133	0.926
-1.280	0.029							
438G	0.212	-1.182	0.926	-1.691	0.528	0.028	-0.188	0.926
-1.691	-0.195							
439A	0.465	-1.450	0.674	-2.268	0.291	0.009	-1.531	0.674
-2.268	-0.544							
440I	-0.129	-0.823	0.561	-2.701	0.328	0.010	-0.942	0.561
-2.701	-0.528							
441M	-0.325	-0.408	0.608	-2.693	0.446	0.009	-0.763	0.608
-2.693	-0.447							
442A	-0.325	0.245	0.608	-2.289	0.446	0.009	-0.763	0.608
-2.289	-0.296							
443V	-0.325	0.736	0.767	-1.308	0.619	0.629	0.514	0.767
-1.308	0.233							
444P	0.813	1.646	1.178	-0.154	0.957	1.116	0.184	1.646
-0.154	0.820							
445G	1.457	1.826	1.515	0.992	1.285	1.142	0.402	1.826
0.402	1.231							
446H	1.590	0.696	1.945	1.520	1.759	1.766	1.412	1.945
0.696	1.527							
447D	2.456	1.145	2.337	1.625	2.087	2.254	0.814	2.456
0.814	1.817							
448Q	1.691	0.431	2.113	0.902	1.832	2.260	0.616	2.260
0.431	1.406							
449R	1.963	-0.060	2.393	0.556	2.196	2.749	0.607	2.749
-0.060	1.486							
450D	1.249	-0.060	2.169	0.254	1.977	2.133	0.591	2.169
-0.060	1.188							
451W	0.749	-0.599	1.898	0.322	1.658	1.644	-0.410	1.898
-0.599	0.752							
452D	0.636	-0.270	2.001	0.121	1.759	2.226	-0.575	2.226
-0.575	0.843							
453F	0.503	-0.182	1.571	-0.328	1.285	1.602	-1.584	1.602
-1.584	0.409							
454A	-0.711	-0.212	1.234	-1.114	0.920	1.117	-1.324	1.234
-1.324	-0.013							
455R	0.281	0.147	1.206	-1.501	0.856	1.092	-1.346	1.206
-1.501	0.105							
456A	-0.932	-0.991	0.851	-1.719	0.547	0.608	-0.902	0.851
-1.719	-0.363							
457F	-0.218	-1.087	1.160	-1.501	0.866	0.623	-0.933	1.160
-1.501	-0.156							
458G	-0.857	-0.338	1.019	-1.421	0.847	0.625	0.399	1.019
-1.421	0.039							
459L	-1.356	-1.061	0.468	-1.433	0.364	0.002	0.988	0.988
-1.433	-0.290							
460P	-0.996	-1.182	0.795	-1.670	0.729	0.601	1.972	1.972
-1.670	0.036							
461I	-0.648	-1.540	0.739	-1.976	0.765	0.599	2.310	2.310
-1.976	0.036							
462V	-1.514	-0.589	0.608	-2.328	0.793	0.601	2.631	2.631
-2.328	0.029							
463E	-0.800	0.135	0.692	-2.493	0.784	0.595	1.186	1.186
-2.493	0.014							
464V	-0.572	0.169	0.440	-2.664	0.465	0.576	0.966	0.966
-2.664	-0.089							
465I	0.294	-0.060	0.571	-2.529	0.437	0.574	0.645	0.645

495A	0.844	-0.050	1.646	-2.008	1.576	1.210	-1.976	1.646
-2.008	0.177							
496K	0.572	0.489	1.627	-2.398	1.567	1.210	-2.243	1.627
-2.398	0.118							
497R	0.206	0.471	1.262	-2.696	1.285	1.193	-1.874	1.285
-2.696	-0.022							
498A	0.705	-0.546	1.533	-2.464	1.604	1.681	-0.873	1.681
-2.464	0.234							
499I	0.838	0.029	1.963	-2.095	2.078	2.306	0.136	2.306
-2.095	0.751							
500V	-0.104	1.209	1.431	-1.550	1.449	1.717	0.506	1.717
-1.550	0.665							
501D	0.123	1.305	1.328	-1.293	1.339	1.692	0.481	1.692
-1.293	0.711							
502R	0.402	1.393	1.477	-1.181	1.494	1.712	1.651	1.712
-1.181	0.993							
503L	1.040	1.393	1.617	-1.267	1.513	1.710	0.319	1.710
-1.267	0.904							
504E	1.634	2.225	1.730	-1.096	1.476	1.708	-0.269	2.225
-1.096	1.058							
505S	1.268	2.463	1.889	-1.144	1.631	1.844	-0.261	2.463
-1.144	1.098							
506A	1.363	1.607	1.449	-1.176	1.112	1.220	-0.260	1.607
-1.176	0.759							
507G	2.210	2.421	1.963	-1.614	1.576	1.839	-0.696	2.421
-1.614	1.100							
508R	1.849	1.469	1.636	-1.965	1.212	1.239	-1.680	1.849
-1.965	0.537							
509G	1.704	1.231	1.917	-2.348	1.531	1.844	-1.840	1.917
-2.348	0.577							
510R	1.065	0.429	1.776	-2.503	1.513	1.846	-0.509	1.846
-2.503	0.517							
511A	1.198	0.447	2.113	-2.699	1.923	2.445	-0.535	2.445
-2.699	0.699							
512R	0.351	0.243	1.617	-2.690	1.403	1.825	-0.283	1.825
-2.690	0.352							
513I	0.351	0.243	2.075	-2.608	2.087	2.419	-0.218	2.419
-2.608	0.621							
514E	-0.496	1.107	1.561	-2.320	1.622	1.800	0.217	1.800
-2.320	0.499							
515F	-0.363	0.029	1.991	-2.167	2.096	2.425	1.227	2.425
-2.167	0.748							
516K	0.003	-0.001	1.832	-1.873	1.941	2.289	1.219	2.289
-1.873	0.773							
517L	-0.123	-1.007	1.991	-1.682	1.977	2.312	0.919	2.312
-1.682	0.627							
518R	-1.198	-0.803	1.580	-1.337	1.622	1.718	1.380	1.718
-1.337	0.423							
519D	-1.198	-0.803	1.580	-1.113	1.622	1.718	1.380	1.718
-1.198	0.455							
520W	-1.426	-0.851	1.132	-1.071	0.984	1.124	0.305	1.132
-1.426	0.028							
521L	-0.578	0.465	1.646	-1.331	1.449	1.743	-0.131	1.743
-1.331	0.466							
522F	-0.465	0.263	1.543	-1.469	1.349	1.161	0.034	1.543
-1.469	0.345							
523A	-0.831	-0.066	1.702	-1.756	1.504	1.296	0.042	1.702
-1.756	0.270							
524R	-0.319	0.562	1.935	-1.733	1.722	1.291	0.351	1.935

554L	0.263	0.221	1.403	-0.837	1.422	1.105	2.199	2.199
-0.837	0.825							
555P	0.263	0.019	1.403	-0.204	1.422	1.105	2.199	2.199
-0.204	0.886							
556D	1.129	0.515	1.795	0.446	1.750	1.592	1.601	1.795
0.446	1.261							
557V	0.515	0.335	1.720	0.736	1.622	1.012	1.960	1.960
0.335	1.129							
558P	1.508	0.335	1.954	0.998	1.768	1.027	1.684	1.954
0.335	1.325							
559D	1.508	-0.228	1.954	1.134	1.768	1.027	1.684	1.954
-0.228	1.264							
560Y	0.642	-0.941	1.561	1.040	1.440	0.539	2.282	2.282
-0.941	0.938							
561S	0.294	0.005	1.599	0.720	1.458	0.543	2.128	2.128
0.005	0.964							
562P	-0.420	-0.492	1.290	0.108	1.139	0.528	2.160	2.160
-0.492	0.616							
563V	-0.420	-0.312	1.290	-0.398	1.139	0.528	2.160	2.160
-0.420	0.570							
564L	-0.167	0.323	1.281	-0.341	1.175	0.528	2.047	2.047
-0.341	0.692							
565F	0.054	0.527	1.403	0.278	1.339	0.997	1.879	1.879
0.054	0.925							
566D	0.553	1.241	1.431	1.209	1.385	1.467	1.650	1.650
0.553	1.276							
567P	0.920	1.557	1.552	1.825	1.394	1.465	0.051	1.825
0.051	1.252							
568D	2.134	1.774	1.907	2.084	1.704	1.949	-0.393	2.134
-0.393	1.594							
569D	3.127	1.593	2.122	1.942	1.905	1.965	-0.484	3.127
-0.484	1.738							
570A	2.987	1.910	2.178	1.546	1.950	2.075	-0.502	2.987
-0.502	1.735							
571D	2.987	2.269	2.178	1.284	1.950	2.075	-0.502	2.987
-0.502	1.749							
572S	2.766	2.088	2.057	1.048	1.786	1.606	-0.333	2.766
-0.333	1.574							
573E	2.267	1.028	2.029	0.873	1.741	1.136	-0.104	2.267
-0.104	1.281							
574P	2.267	0.453	2.272	1.017	2.014	1.155	1.126	2.272
0.453	1.472							
575S	1.053	0.926	1.917	0.945	1.704	0.672	1.570	1.917
0.672	1.255							
576P	0.775	0.071	1.767	0.614	1.549	0.652	0.400	1.767
0.071	0.832							
577P	0.642	0.203	1.889	-0.084	1.823	0.647	0.491	1.889
-0.084	0.801							
578L	0.642	0.419	1.646	-1.028	1.549	0.628	-0.739	1.646
-1.028	0.445							
579A	0.560	0.121	1.692	-1.697	1.549	0.628	-0.858	1.692
-1.697	0.285							
580K	0.920	0.025	1.776	-1.923	1.640	1.208	-1.104	1.776
-1.923	0.363							
581A	0.155	-0.717	1.552	-1.878	1.385	1.215	-1.302	1.552
-1.878	0.059							
582T	0.503	-0.813	1.515	-1.773	1.367	1.211	-1.148	1.515
-1.773	0.123							
583E	0.503	-0.765	1.674	-1.445	1.540	1.831	0.130	1.831

-1.445	0.495							
584W	-0.092	-1.544	1.103	-1.138	0.893	1.238	0.653	1.238
-1.544	0.159							
585V	0.408	-0.502	1.375	-0.297	1.212	1.726	1.654	1.726
-0.502	0.797							
586H	-0.503	-0.611	1.094	0.207	1.066	1.712	2.049	2.049
-0.611	0.716							
587V	-0.363	-0.074	1.038	0.759	1.020	1.601	2.066	2.066
-0.363	0.864							
588D	-0.313	0.562	0.935	0.600	1.011	1.581	2.479	2.479
-0.313	0.979							
589L	0.281	0.650	1.047	0.397	0.975	1.580	1.890	1.890
0.281	0.974							
590D	0.781	0.650	1.160	-0.004	1.121	1.449	1.614	1.614
-0.004	0.967							
591L	1.375	0.942	1.272	-0.076	1.084	1.447	1.025	1.447
-0.076	1.010							
592G	0.161	1.505	0.917	-0.303	0.774	0.964	1.469	1.505
-0.303	0.784							
593D	1.103	0.471	1.449	-0.450	1.403	1.553	1.099	1.553
-0.450	0.947							
594G	0.604	0.788	1.421	-0.838	1.358	1.083	1.328	1.421
-0.838	0.821							
595L	1.065	0.974	1.758	-1.143	1.586	1.097	1.225	1.758
-1.143	0.937							
596K	1.116	1.718	1.917	-0.965	1.786	1.117	1.385	1.917
-0.965	1.153							
597P	0.749	1.377	2.075	-0.762	1.941	1.253	1.393	2.075
-0.762	1.147							
598Y	1.021	1.627	2.356	-0.103	2.306	1.742	1.384	2.356
-0.103	1.476							
599S	1.932	1.938	2.636	0.225	2.451	1.756	0.990	2.636
0.225	1.704							
600R	2.014	0.968	2.487	0.873	2.123	1.202	0.812	2.487
0.812	1.497							
601D	1.647	0.513	2.122	1.177	1.841	1.185	1.180	2.122
0.513	1.381							
602T	1.502	0.465	1.860	1.427	1.649	1.183	0.793	1.860
0.465	1.269							
603N	1.224	-0.528	1.954	1.002	1.768	1.182	0.853	1.954
-0.528	1.065							
604V	1.337	-1.138	1.851	0.376	1.668	0.599	1.017	1.851
-1.138	0.816							
605M	0.073	-0.414	1.599	-0.489	1.367	0.136	1.049	1.599
-0.489	0.474							
606P	-0.123	0.556	1.403	-0.869	1.212	0.116	-0.002	1.403
-0.869	0.327							
607Q	-0.205	1.052	1.094	-1.243	0.856	0.075	0.111	1.094
-1.243	0.249							
608W	0.440	0.059	1.365	-1.201	1.020	0.094	-0.318	1.365
-1.201	0.208							
609A	1.116	0.155	1.524	-0.866	1.130	0.097	-0.103	1.524
-0.866	0.436							
610G	0.351	0.730	1.300	-0.405	0.875	0.103	-0.301	1.300
-0.405	0.379							
611S	-0.148	-0.102	1.225	0.110	0.738	0.080	-0.132	1.225
-0.148	0.253							
612S	0.977	-0.144	1.533	0.109	1.084	0.654	-0.180	1.533
-0.180	0.576							

613W	0.263	-1.406	1.449	-0.467	1.093	0.660	1.265	1.449
-1.406	0.408							
614Y	0.168	-0.412	1.889	-1.289	1.613	1.284	1.264	1.889
-1.289	0.645							
615E	-0.363	0.534	1.991	-1.917	1.695	1.283	1.436	1.991
-1.917	0.666							
616L	-0.446	0.317	2.038	-2.126	1.695	1.283	1.317	2.038
-2.126	0.583							
617R	0.819	0.612	2.290	-1.603	1.996	1.747	1.286	2.290
-1.603	1.021							
618Y	1.072	0.407	2.281	-0.787	2.032	1.747	1.173	2.281
-0.787	1.132							
619T	0.711	1.670	2.113	0.487	1.841	1.767	1.467	2.113
0.487	1.437							
620D	1.736	1.754	2.496	1.824	2.142	1.802	0.919	2.496
0.919	1.810							
621P	1.881	2.028	2.216	3.002	1.823	1.198	1.080	3.002
1.080	1.889							
622H	2.494	1.495	2.290	3.493	1.950	1.778	0.721	3.493
0.721	2.032							
623N	2.431	1.441	2.524	3.106	2.269	2.383	0.680	3.106
0.680	2.119							
624S	1.217	0.832	2.188	1.844	1.905	1.898	0.940	2.188
0.832	1.546							
625E	1.173	0.808	1.730	0.522	1.540	1.897	1.342	1.897
0.522	1.287							
626R	1.173	0.808	1.571	-0.465	1.367	1.277	0.065	1.571
-0.465	0.828							
627F	1.091	0.604	1.720	-0.841	1.695	1.831	0.243	1.831
-0.841	0.906							
628C	1.173	1.353	1.898	-1.024	1.905	2.410	0.057	2.410
-1.024	1.110							
629A	1.122	1.317	1.870	-0.871	1.850	1.851	-0.030	1.870
-0.871	1.016							
630K	1.350	0.910	1.767	-0.790	1.741	1.826	-0.055	1.826
-0.790	0.964							
631E	2.064	-0.424	1.832	-0.407	1.786	1.822	-1.317	2.064
-1.317	0.765							
632N	1.856	-1.113	2.300	-0.227	2.114	1.824	-1.607	2.300
-1.607	0.735							
633E	1.091	-1.095	2.318	-0.401	2.132	1.849	-0.575	2.318
-1.095	0.760							
634A	0.465	-1.312	1.860	-1.105	1.540	1.271	-0.695	1.860
-1.312	0.289							
635Y	0.332	-0.498	1.524	-1.697	1.130	0.672	-0.668	1.524
-1.697	0.113							
636W	0.022	0.267	1.468	-2.120	1.093	0.650	-0.335	1.468
-2.120	0.149							
637M	-0.205	0.770	1.571	-2.024	1.203	0.675	-0.310	1.571
-2.024	0.240							
638G	-0.205	1.459	1.814	-1.585	1.476	0.694	0.920	1.814
-1.585	0.653							
639P	0.048	0.922	1.561	-1.255	1.239	0.675	-0.422	1.561
-1.255	0.396							
640R	1.173	1.191	1.870	-1.044	1.586	1.249	-0.470	1.870
-1.044	0.793							
641P	1.571	0.736	2.038	-0.751	1.713	1.852	-0.148	2.038
-0.751	1.002							
642A	1.571	0.916	2.038	-0.527	1.713	1.852	-0.148	2.038

672W	-0.357	-1.562	1.664	-0.132	1.604	1.860	1.535	1.860
-1.562	0.659							
673H	-1.350	-0.520	1.431	-0.359	1.458	1.845	1.810	1.845
-1.350	0.616							
674K	-1.735	-0.815	1.253	-0.671	1.221	1.240	2.143	2.143
-1.735	0.377							
675V	-0.521	-1.019	1.589	-1.079	1.586	1.725	1.883	1.883
-1.079	0.595							
676L	-0.471	-0.833	1.487	-1.080	1.576	1.705	2.296	2.296
-1.080	0.669							
677Y	-0.243	-0.725	1.318	-0.912	1.358	1.085	2.029	2.029
-0.912	0.559							
678D	-0.471	0.538	1.029	-0.277	0.893	1.110	2.231	2.231
-0.471	0.722							
679L	-0.471	0.854	1.029	0.004	0.893	1.110	2.231	2.231
-0.471	0.807							
680G	0.522	1.872	1.262	0.430	1.039	1.125	1.956	1.956
0.430	1.172							
681H	1.053	1.820	1.160	0.853	0.957	1.126	1.784	1.820
0.853	1.250							
682V	0.686	2.088	1.318	0.979	1.112	1.261	1.792	2.088
0.686	1.320							
683S	1.761	1.778	1.730	0.820	1.467	1.856	1.331	1.856
0.820	1.535							
684S	1.533	1.736	1.982	0.386	1.786	1.875	1.550	1.982
0.386	1.550							
685R	1.280	1.694	2.075	-0.382	1.850	1.274	1.615	2.075
-0.382	1.344							
686E	1.780	0.676	2.627	-0.786	2.333	1.897	1.025	2.627
-0.786	1.365							
687P	1.634	0.005	2.907	-1.179	2.652	2.502	0.865	2.907
-1.179	1.341							
688Y	0.642	0.255	2.674	-1.585	2.506	2.487	1.140	2.674
-1.585	1.160							
689R	0.142	1.153	2.122	-1.978	2.023	1.864	1.730	2.122
-1.978	1.008							
690R	0.092	0.966	2.094	-1.854	1.968	1.305	1.643	2.094
-1.854	0.888							
691L	0.338	-0.254	2.178	-1.356	2.069	1.329	1.586	2.178
-1.356	0.841							
692V	0.819	-0.374	1.917	-0.364	1.786	1.309	1.254	1.917
-0.374	0.907							
693N	0.433	0.213	1.739	0.339	1.549	0.704	1.587	1.739
0.213	0.938							
694Q	-0.338	-0.396	1.169	0.240	1.057	0.081	1.910	1.910
-0.396	0.532							
695G	0.623	-1.294	1.580	-0.427	1.422	0.118	1.638	1.638
-1.294	0.523							
696Y	0.990	-1.921	1.702	-1.160	1.431	0.116	0.039	1.702
-1.921	0.171							
697I	0.427	-1.921	1.655	-1.664	1.358	0.095	0.484	1.655
-1.921	0.062							
698Q	0.180	-1.105	1.328	-1.718	0.984	0.053	-0.689	1.328
-1.718	-0.138							
699A	-0.300	-1.057	1.589	-1.583	1.267	0.072	-0.357	1.589
-1.583	-0.053							
700Y	0.149	-1.057	1.533	-1.472	1.185	0.073	-0.649	1.533
-1.472	-0.034							
701A	1.287	0.163	1.945	-0.990	1.522	0.560	-0.979	1.945

-0.990	0.501							
702Y	1.040	0.790	1.617	-0.589	1.148	0.517	-2.153	1.617
-2.153	0.339							
703T	1.173	2.052	2.047	-0.181	1.622	1.142	-1.143	2.052
-1.143	0.959							
704D	1.653	1.155	1.786	-0.264	1.339	1.123	-1.475	1.786
-1.475	0.760							
705A	1.932	0.519	1.935	-0.501	1.494	1.143	-0.305	1.935
-0.501	0.888							
706R	1.932	0.878	1.935	-0.804	1.494	1.143	-0.305	1.935
-0.804	0.896							
707G	1.369	0.065	1.617	-0.760	1.330	1.124	0.243	1.617
-0.760	0.713							
708S	0.869	0.013	1.589	-0.579	1.285	0.654	0.472	1.589
-0.579	0.615							
709Y	0.869	-0.352	1.589	-0.489	1.285	0.654	0.472	1.589
-0.489	0.576							
710V	1.097	-0.042	1.487	-0.677	1.175	0.629	0.446	1.487
-0.677	0.588							
711P	1.116	-0.270	1.823	-0.923	1.595	0.672	0.609	1.823
-0.923	0.660							
712A	0.471	-0.054	1.552	-1.258	1.431	0.653	1.038	1.552
-1.258	0.548							
713E	0.085	0.760	1.160	-1.526	1.175	0.636	1.028	1.175
-1.526	0.474							
714Q	0.813	0.812	1.608	-1.789	1.549	1.234	0.413	1.608
-1.789	0.663							
715V	0.945	0.860	1.795	-2.220	1.750	1.839	0.192	1.839
-2.220	0.737							
716I	1.173	1.770	1.786	-2.480	1.704	1.839	1.202	1.839
-2.480	0.999							
717E	1.312	1.920	1.730	-2.277	1.658	1.729	1.220	1.920
-2.277	1.042							
718R	1.198	1.249	1.832	-1.887	1.759	2.311	1.056	2.311
-1.887	1.074							
719G	0.850	0.029	1.889	-1.151	1.722	2.314	0.718	2.314
-1.151	0.910							
720D	1.122	-0.240	1.907	-0.736	1.731	2.313	0.985	2.313
-0.736	1.012							
721R	0.509	-0.152	1.832	-0.674	1.604	1.733	1.343	1.832
-0.674	0.885							
722F	0.376	-0.607	1.646	-0.807	1.403	1.128	1.564	1.646
-0.807	0.672							
723V	0.376	0.107	1.646	-0.861	1.403	1.128	1.564	1.646
-0.861	0.766							
724Y	-0.123	0.830	1.617	-0.766	1.358	0.658	1.793	1.793
-0.766	0.767							
725P	0.244	1.812	1.459	-0.226	1.203	0.522	1.785	1.812
-0.226	0.971							
726G	1.186	1.357	1.515	0.149	1.203	0.518	1.534	1.534
0.149	1.066							
727P	1.913	1.305	1.963	0.388	1.576	1.116	0.919	1.963
0.388	1.311							
728D	1.799	0.850	1.589	0.164	1.330	1.098	1.176	1.799
0.164	1.144							
729G	2.159	0.137	1.674	-0.544	1.422	1.678	0.930	2.159
-0.544	1.065							
730E	1.565	0.001	1.561	-1.331	1.458	1.680	1.518	1.680
-1.331	0.922							

731V	0.850	0.001	1.253	-1.824	1.139	1.665	1.549	1.665
-1.824	0.662							
732E	0.598	-0.078	1.309	-1.895	1.194	1.219	1.721	1.721
-1.895	0.581							
733V	0.730	-0.026	1.646	-1.580	1.604	1.818	1.695	1.818
-1.580	0.841							
734F	-0.344	0.902	1.253	-1.178	1.194	1.223	1.972	1.972
-1.178	0.717							
735Q	0.250	0.752	1.365	-1.002	1.157	1.221	1.384	1.384
-1.002	0.732							
736E	0.117	0.888	1.487	-1.055	1.431	1.216	1.475	1.487
-1.055	0.794							
737F	-0.155	1.145	1.468	-1.375	1.422	1.217	1.208	1.468
-1.375	0.704							
738G	0.787	2.174	1.524	-1.792	1.422	1.212	0.957	2.174
-1.792	0.898							
739K	0.768	1.343	1.646	-2.259	1.686	1.765	0.859	1.765
-2.259	0.830							
740I	0.686	1.343	1.468	-2.198	1.476	1.185	1.045	1.476
-2.198	0.715							
741G	0.686	2.277	1.449	-1.992	1.531	1.186	1.229	2.277
-1.992	0.909							
742K	0.686	2.505	1.907	-1.516	2.214	1.781	1.294	2.505
-1.516	1.267							
743S	0.768	1.577	1.758	-0.855	1.886	1.227	1.116	1.886
-0.855	1.068							
744L	1.685	1.577	2.047	-0.146	2.060	1.245	0.954	2.060
-0.146	1.346							
745K	1.091	2.140	1.935	0.502	2.096	1.247	1.542	2.140
0.502	1.508							
746N	1.141	1.848	1.636	1.245	1.613	0.672	1.637	1.848
0.672	1.399							
747S	0.863	1.814	1.730	1.430	1.731	0.671	1.697	1.814
0.671	1.420							
748V	2.077	0.634	2.085	1.522	2.041	1.155	1.253	2.085
0.634	1.538							
749S	2.210	0.766	1.963	1.361	1.768	1.160	1.162	2.210
0.766	1.484							
750P	1.261	0.449	1.524	0.903	1.440	1.121	1.597	1.597
0.449	1.185							
751D	0.939	0.091	1.160	0.363	1.194	1.119	2.059	2.059
0.091	0.989							
752E	1.805	-0.855	1.552	-0.028	1.522	1.606	1.461	1.805
-0.855	1.009							
753I	1.527	-0.803	1.403	-0.351	1.367	1.586	0.291	1.586
-0.803	0.717							
754C	1.274	-0.478	1.412	-0.145	1.330	1.586	0.403	1.586
-0.478	0.769							
755D	1.002	0.025	1.132	-0.118	0.966	1.097	0.413	1.132
-0.118	0.645							
756A	0.642	-0.023	0.804	-0.362	0.601	0.498	-0.571	0.804
-0.571	0.227							
757Y	1.780	-0.228	1.216	-0.609	0.938	0.985	-0.902	1.780
-0.902	0.454							
758G	2.020	0.992	1.627	-0.698	1.185	0.987	-1.483	2.020
-1.483	0.661							
759A	0.806	0.269	1.272	-0.502	0.875	0.503	-1.039	1.272
-1.039	0.312							
760D	0.939	-0.138	1.702	-0.308	1.349	1.128	-0.030	1.702

-0.308	0.663							
761T	0.825	-0.102	1.328	-0.608	1.103	1.110	0.227	1.328
-0.608	0.555							
762L	0.345	-0.707	1.589	-1.231	1.385	1.130	0.558	1.589
-1.231	0.438							
763R	0.705	0.353	1.917	-1.764	1.750	1.729	1.542	1.917
-1.764	0.890							
764V	-0.193	-0.574	1.636	-2.162	1.476	1.258	1.496	1.636
-2.162	0.420							
765Y	-0.111	0.149	1.589	-2.014	1.476	1.258	1.615	1.615
-2.014	0.566							
766E	0.206	0.914	1.664	-1.877	1.513	1.269	1.125	1.664
-1.877	0.688							
767M	0.300	0.135	1.225	-1.618	0.993	0.645	1.126	1.225
-1.618	0.401							
768S	0.667	0.824	1.589	-1.375	1.276	0.662	0.757	1.589
-1.375	0.629							
769M	0.206	-0.032	1.253	-1.258	1.048	0.648	0.860	1.253
-1.258	0.389							
770G	0.206	0.938	1.253	-1.258	1.048	0.648	0.860	1.253
-1.258	0.528							
771P	0.604	1.125	1.262	-1.328	1.002	0.631	-0.095	1.262
-1.328	0.457							
772L	0.604	1.125	1.262	-1.423	1.002	0.631	-0.095	1.262
-1.423	0.444							
773E	1.135	0.826	1.702	-1.380	1.431	1.239	-0.040	1.702
-1.380	0.702							
774A	0.907	0.251	1.954	-1.023	1.750	1.258	0.179	1.954
-1.023	0.754							
775S	0.142	0.742	1.730	-0.864	1.494	1.264	-0.018	1.730
-0.864	0.641							
776R	0.857	0.718	1.814	-0.745	1.485	1.258	-1.464	1.814
-1.464	0.561							
777P	0.692	0.443	1.683	-0.922	1.276	0.679	-1.397	1.683
-1.397	0.351							
778W	0.920	-0.011	2.132	-1.164	1.914	1.273	-0.321	2.132
-1.164	0.677							
779A	1.141	0.395	2.253	-1.173	2.078	1.742	-0.490	2.253
-1.173	0.849							
780T	0.642	1.022	1.702	-0.921	1.595	1.119	0.099	1.702
-0.921	0.751							
781K	0.275	0.532	1.337	-0.696	1.312	1.102	0.468	1.337
-0.696	0.619							
782D	1.268	-0.707	1.309	-0.665	1.248	1.076	0.446	1.309
-0.707	0.568							
783V	1.268	-0.432	1.309	-0.925	1.248	1.076	0.446	1.309
-0.925	0.570							
784V	0.819	-0.510	1.365	-1.393	1.330	1.076	0.738	1.365
-1.393	0.489							
785G	0.724	-0.619	1.346	-1.666	1.166	1.106	0.672	1.346
-1.666	0.390							
786A	-0.490	-0.755	1.010	-1.807	0.802	0.621	0.932	1.010
-1.807	0.045							
787Y	-0.838	0.059	1.047	-1.760	0.820	0.625	0.778	1.047
-1.760	0.104							
788R	-0.224	0.369	1.496	-1.582	1.203	0.666	0.353	1.496
-1.582	0.326							
789F	-0.319	-0.947	1.935	-1.565	1.722	1.291	0.351	1.935
-1.565	0.353							

790L	-0.686	0.041	1.814	-1.535	1.713	1.292	1.950	1.950
-1.535	0.656							
791Q	-1.198	0.041	1.580	-1.752	1.494	1.298	1.640	1.640
-1.752	0.443							
792R	-1.198	-0.546	1.580	-1.981	1.494	1.298	1.640	1.640
-1.981	0.327							
793V	-1.198	-1.456	1.561	-2.340	1.549	1.299	1.824	1.824
-2.340	0.177							
794W	-0.850	-0.821	1.524	-2.495	1.531	1.295	1.978	1.978
-2.495	0.309							
795R	-1.464	0.257	1.075	-2.613	1.148	1.255	2.403	2.403
-2.613	0.295							
796L	-1.097	-0.466	0.917	-2.228	0.993	1.119	2.395	2.395
-2.228	0.233							
797V	-0.370	0.229	1.365	-1.772	1.367	1.717	1.780	1.780
-1.772	0.617							
798V	0.395	0.952	1.505	-0.772	1.522	2.311	2.025	2.311
-0.772	1.134							
799D	0.459	1.623	1.272	0.102	1.203	1.707	2.067	2.067
0.102	1.205							
800E	1.401	1.575	1.346	0.804	1.148	1.701	1.632	1.701
0.804	1.373							
801H	2.128	1.814	1.795	0.820	1.522	2.299	1.017	2.299
0.820	1.628							
802T	2.690	1.627	2.113	0.477	1.686	2.318	0.469	2.690
0.469	1.626							
803G	2.324	1.137	2.272	-0.445	1.841	2.453	0.477	2.453
-0.445	1.437							
804E	1.597	1.048	1.823	-1.014	1.467	1.855	1.093	1.855
-1.014	1.124							
805T	1.597	1.101	1.664	-1.624	1.294	1.236	-0.185	1.664
-1.624	0.726							
806R	1.900	0.513	1.739	-1.578	1.458	1.705	-0.235	1.900
-1.578	0.786							
807V	1.900	0.275	1.739	-1.384	1.458	1.705	-0.235	1.900
-1.384	0.780							
808A	1.173	0.167	1.290	-0.937	1.084	1.107	0.380	1.290
-0.937	0.609							
809D	1.337	0.706	1.421	-0.799	1.294	1.686	0.313	1.686
-0.799	0.851							
810G	0.490	-0.158	0.907	-0.965	0.829	1.067	0.749	1.067
-0.965	0.417							
811V	1.356	-0.246	1.300	-1.220	1.157	1.554	0.151	1.554
-1.220	0.579							
812E	0.718	0.341	1.160	-1.408	1.139	1.556	1.483	1.556
-1.408	0.713							
813L	0.718	-0.438	1.160	-1.069	1.139	1.556	1.483	1.556
-1.069	0.650							
814D	0.686	0.580	1.365	-0.521	1.339	1.576	1.524	1.576
-0.521	0.936							
815I	0.338	0.041	1.403	-0.075	1.358	1.580	1.370	1.580
-0.075	0.859							
816D	0.111	0.161	1.505	-0.141	1.467	1.605	1.395	1.605
-0.141	0.872							
817T	0.825	-0.288	1.589	-0.531	1.458	1.600	-0.050	1.600
-0.531	0.658							
818L	-0.389	0.035	1.234	-1.403	1.148	1.116	0.394	1.234
-1.403	0.305							
819R	0.250	0.730	1.533	-1.514	1.339	1.734	0.340	1.734

-1.514	0.630							
820A	-0.117	-0.408	1.692	-1.495	1.494	1.870	0.348	1.870
-1.495	0.484							
821L	-0.117	-0.504	1.692	-0.795	1.494	1.870	0.348	1.870
-0.795	0.570							
822H	-0.041	0.327	1.636	-0.452	1.467	1.866	0.235	1.866
-0.452	0.720							
823R	-0.540	0.141	1.085	-0.543	0.984	1.243	0.824	1.243
-0.543	0.456							
824T	-0.313	0.183	1.075	-1.191	0.938	1.243	1.835	1.835
-1.191	0.539							
825I	0.035	0.267	1.038	-1.702	0.920	1.239	1.988	1.988
-1.702	0.541							
826V	0.313	1.131	1.029	-1.916	0.902	0.639	1.881	1.881
-1.916	0.568							
827G	0.541	1.052	0.926	-1.569	0.793	0.614	1.856	1.856
-1.569	0.602							
828V	0.844	0.425	1.001	-0.897	0.957	1.083	1.806	1.806
-0.897	0.746							
829S	0.768	0.521	1.075	-0.228	0.929	1.086	1.735	1.735
-0.228	0.841							
830E	1.135	-0.538	1.197	0.208	0.938	1.084	0.136	1.197
-0.538	0.594							
831D	0.907	-0.300	1.206	0.143	0.984	1.084	-0.874	1.206
-0.874	0.450							
832F	0.560	-0.230	1.244	-0.284	1.002	1.088	-1.028	1.244
-1.028	0.336							
833A	0.414	0.554	1.524	-1.165	1.321	1.693	-1.188	1.693
-1.188	0.450							
834A	0.364	1.044	1.496	-1.331	1.267	1.134	-1.275	1.496
-1.331	0.385							
835L	0.174	1.044	1.524	-0.829	1.257	0.685	-1.379	1.524
-1.379	0.354							
836R	1.084	1.740	1.786	0.491	1.458	0.701	-1.590	1.786
-1.590	0.810							
837N	1.084	0.926	1.786	1.754	1.458	0.701	-1.590	1.786
-1.590	0.874							
838N	1.280	1.149	1.982	2.200	1.613	0.721	-0.539	2.200
-0.539	1.201							
839T	1.995	0.335	2.066	1.480	1.604	0.716	-1.984	2.066
-1.984	0.887							
840A	2.090	-0.480	2.085	0.305	1.768	0.686	-1.918	2.090
-1.918	0.648							
841T	1.065	0.095	1.702	-0.929	1.467	0.650	-1.370	1.702
-1.370	0.383							
842A	0.117	-0.803	1.262	-1.813	1.139	0.612	-0.935	1.262
-1.813	-0.060							
843K	0.281	-0.312	1.393	-2.342	1.349	1.191	-1.002	1.393
-2.342	0.080							
844L	0.029	-0.534	1.646	-2.597	1.586	1.211	0.340	1.646
-2.597	0.240							
845I	0.029	-0.240	1.646	-2.532	1.586	1.211	0.340	1.646
-2.532	0.291							
846E	0.338	-0.120	1.945	-1.675	1.895	1.251	1.237	1.945
-1.675	0.696							
847Y	0.111	-0.204	1.655	-0.225	1.431	1.276	1.439	1.655
-0.225	0.783							
848T	0.111	1.034	1.655	1.203	1.431	1.276	1.439	1.655
0.111	1.164							

849N	0.945	1.375	1.991	2.181	1.604	1.295	1.158	2.181
0.945	1.507							
850H	0.813	0.856	2.113	1.961	1.877	1.290	1.250	2.113
0.813	1.451							
851L	1.293	1.579	2.309	0.860	2.278	1.865	0.983	2.309
0.860	1.595							
852T	1.097	2.323	2.272	-0.083	2.296	2.465	1.209	2.465
-0.083	1.654							
853K	0.920	1.832	2.403	-0.707	2.461	3.049	1.321	3.049
-0.707	1.611							
854K	1.420	0.904	2.515	-0.386	2.606	2.918	1.045	2.918
-0.386	1.575							
855H	2.134	0.431	2.599	0.097	2.597	2.913	-0.400	2.913
-0.400	1.482							
856R	1.571	1.155	2.281	0.261	2.433	2.894	0.148	2.894
0.148	1.535							
857D	1.344	0.341	2.075	0.047	2.069	2.318	0.303	2.318
0.047	1.214							
858A	1.249	-0.198	2.057	-0.368	1.905	2.349	0.237	2.349
-0.368	1.033							
859V	1.249	-0.294	1.898	-0.988	1.731	1.729	-1.040	1.898
-1.040	0.612							
860P	1.116	0.377	1.468	-1.269	1.257	1.104	-2.050	1.468
-2.050	0.286							
861R	0.250	0.377	1.075	-1.704	0.929	0.617	-1.452	1.075
-1.704	0.013							
862A	0.610	-0.641	1.403	-1.978	1.294	1.216	-0.468	1.403
-1.978	0.205							
863A	0.977	-0.737	1.767	-1.965	1.576	1.234	-0.837	1.767
-1.965	0.288							
864V	0.263	-0.246	1.440	-1.929	1.312	1.220	-0.622	1.440
-1.929	0.205							
865E	-0.237	-0.264	0.889	-1.642	0.829	0.597	-0.032	0.889
-1.642	0.020							
866P	0.010	-1.043	1.216	-1.453	1.203	0.639	1.141	1.216
-1.453	0.245							
867L	-0.389	-1.402	1.206	-1.502	1.248	0.657	2.096	2.096
-1.502	0.273							
868V	-0.736	-0.839	1.244	-1.700	1.267	0.660	1.942	1.942
-1.700	0.263							
869Q	-1.097	-0.947	0.917	-1.954	0.902	0.061	0.958	0.958
-1.954	-0.166							
870M	-1.097	-1.438	0.917	-2.076	0.902	0.061	0.958	0.958
-2.076	-0.253							
871L	-1.097	-0.965	0.917	-2.003	0.902	0.061	0.958	0.958
-2.003	-0.175							
872A	-0.730	-0.671	1.038	-1.730	0.911	0.059	-0.640	1.038
-1.730	-0.252							
873P	-0.977	-0.995	0.954	-1.456	0.811	0.036	-0.584	0.954
-1.456	-0.316							
874L	-0.578	-1.354	1.122	-0.832	0.938	0.638	-0.261	1.122
-1.354	-0.047							
875A	-0.503	-0.574	1.066	-0.381	0.911	0.635	-0.375	1.066
-0.574	0.111							
876P	-0.503	0.001	1.066	0.112	0.911	0.635	-0.375	1.066
-0.503	0.264							
877H	-0.142	-0.562	1.150	-0.052	1.002	1.215	-0.621	1.215
-0.621	0.284							
878I	0.933	-1.156	1.561	-0.649	1.358	1.810	-1.082	1.810

-1.156	0.396							
879A	0.218	-1.035	1.477	-1.544	1.367	1.815	0.363	1.815
-1.544	0.380							
880E	-0.547	-0.222	1.253	-2.162	1.112	1.821	0.165	1.821
-2.162	0.203							
881E	-1.261	-1.001	1.010	-2.563	0.948	1.207	0.333	1.207
-2.563	-0.190							
882L	-0.490	-0.949	1.580	-2.564	1.440	1.830	0.010	1.830
-2.564	0.122							
883W	-1.204	-0.136	1.496	-2.639	1.449	1.835	1.456	1.835
-2.639	0.322							
884L	-1.337	0.858	1.160	-2.638	1.039	1.236	1.482	1.482
-2.638	0.257							
885R	-1.388	1.553	1.132	-2.101	0.984	0.677	1.395	1.553
-2.101	0.322							
886L	-0.477	1.595	1.412	-1.250	1.130	0.691	1.001	1.595
-1.250	0.586							
887G	0.484	1.595	1.589	-0.048	1.267	0.686	1.020	1.595
-0.048	0.942							
888N	1.476	0.968	1.823	0.973	1.412	0.700	0.745	1.823
0.700	1.157							
889T	0.629	0.449	1.309	1.299	0.948	0.081	1.180	1.309
0.081	0.842							
890T	1.344	0.586	1.393	0.928	0.938	0.076	-0.265	1.393
-0.265	0.714							
891S	1.116	0.453	1.561	0.573	1.157	0.696	0.002	1.561
0.002	0.794							
892L	1.034	-0.576	1.253	0.087	0.802	0.655	0.116	1.253
-0.576	0.481							
893A	0.838	-0.013	1.300	0.268	0.920	0.654	0.295	1.300
-0.013	0.609							
894H	-0.073	0.818	1.038	0.494	0.720	0.638	0.505	1.038
-0.073	0.592							
895G	-0.351	0.728	1.132	0.639	0.838	0.637	0.565	1.132
-0.351	0.598							
896P	0.591	0.640	1.664	0.463	1.467	1.227	0.195	1.664
0.195	0.892							
897F	0.591	0.281	1.664	0.126	1.467	1.227	0.195	1.664
0.126	0.793							
898P	1.091	0.455	1.776	-0.327	1.613	1.096	-0.081	1.776
-0.327	0.803							
899K	0.863	-0.310	1.786	-0.528	1.658	1.096	-1.091	1.786
-1.091	0.496							
900A	0.863	-1.346	1.543	-0.633	1.385	1.077	-2.321	1.543
-2.321	0.081							
901D	1.325	-1.442	1.860	-0.672	1.668	1.092	-2.240	1.860
-2.240	0.227							
902A	0.610	-1.442	1.533	-0.944	1.403	1.078	-2.025	1.533
-2.025	0.031							
903A	0.016	-0.867	0.963	-1.332	0.756	0.485	-1.502	0.963
-1.502	-0.211							
904Y	0.515	-0.376	1.234	-1.401	1.075	0.974	-0.501	1.234
-1.401	0.217							
905L	0.376	-0.066	1.290	-1.414	1.121	1.085	-0.518	1.290
-1.414	0.268							
906V	0.572	0.714	1.487	-0.901	1.276	1.105	0.533	1.487
-0.901	0.684							
907D	0.206	0.403	1.365	-0.619	1.267	1.106	2.132	2.132
-0.619	0.837							

908E	0.819	0.223	1.440	-0.643	1.394	1.686	1.773	1.773
-0.643	0.956							
909T	1.280	-0.448	1.776	-0.971	1.622	1.700	1.671	1.776
-0.971	0.947							
910V	1.647	-0.448	2.141	-1.159	1.905	1.718	1.302	2.141
-1.159	1.015							
911E	0.781	-0.448	1.748	-1.353	1.576	1.230	1.899	1.899
-1.353	0.776							
912Y	0.667	-0.414	1.748	-1.050	1.586	0.673	2.089	2.089
-1.050	0.757							
913P	0.104	0.620	1.431	-0.959	1.422	0.655	2.637	2.637
-0.959	0.844							
914V	0.781	1.093	1.851	-0.501	1.741	0.694	1.935	1.935
-0.501	1.085							
915Q	0.648	1.093	1.515	-0.187	1.330	0.094	1.962	1.962
-0.187	0.922							
916V	1.129	1.415	1.711	0.230	1.731	0.670	1.695	1.731
0.230	1.226							
917N	0.762	2.138	1.346	0.168	1.449	0.652	2.064	2.138
0.168	1.226							
918G	1.261	2.343	1.898	-0.322	1.932	1.275	1.474	2.343
-0.322	1.409							
919K	1.242	1.619	1.561	-1.249	1.513	1.233	1.311	1.619
-1.249	1.033							
920V	1.742	0.692	2.113	-1.919	1.996	1.856	0.721	2.113
-1.919	1.029							
921R	1.065	0.692	1.692	-2.406	1.677	1.817	1.423	1.817
-2.406	0.851							
922G	0.471	-0.122	1.580	-2.425	1.713	1.819	2.012	2.012
-2.425	0.721							
923R	-0.123	-0.749	1.010	-2.378	1.066	1.225	2.535	2.535
-2.378	0.370							
924V	0.244	-1.023	1.132	-2.358	1.075	1.224	0.936	1.224
-2.358	0.176							
925V	0.111	-0.436	0.702	-2.289	0.601	0.599	-0.073	0.702
-2.289	-0.112							
926V	0.383	0.199	0.982	-1.958	0.966	1.088	-0.082	1.088
-1.958	0.225							
927A	0.446	0.870	0.748	-1.404	0.647	0.483	-0.040	0.870
-1.404	0.250							
928A	1.312	1.445	1.141	-0.441	0.975	0.971	-0.638	1.445
-0.638	0.681							
929D	2.039	1.936	1.589	0.311	1.349	1.569	-1.253	2.039
-1.253	1.077							
930T	2.766	1.193	2.038	0.666	1.722	2.167	-1.868	2.766
-1.868	1.241							
931D	2.962	1.533	2.234	0.373	1.877	2.187	-0.817	2.962
-0.817	1.479							
932E	2.248	0.994	2.150	-0.285	1.886	2.192	0.628	2.248
-0.285	1.402							
933E	1.976	0.419	2.328	-1.086	2.205	2.298	0.702	2.328
-1.086	1.263							
934T	1.780	-0.252	2.132	-1.551	2.050	2.278	-0.349	2.278
-1.551	0.870							
935L	1.280	-0.947	1.860	-1.960	1.731	1.789	-1.350	1.860
-1.960	0.343							
936K	0.553	-0.252	1.412	-2.147	1.358	1.191	-0.735	1.412
-2.147	0.197							
937A	-0.521	-0.544	1.001	-2.261	1.002	0.597	-0.274	1.002

-2.261	-0.143							
938A	-0.521	0.031	1.001	-2.215	1.002	0.597	-0.274	1.002
-2.215	-0.054							
939V	0.692	0.862	1.356	-1.731	1.312	1.080	-0.718	1.356
-1.731	0.408							
940L	0.825	0.862	1.234	-1.150	1.039	1.085	-0.809	1.234
-1.150	0.441							
941T	1.053	1.557	1.683	-0.613	1.677	1.680	0.266	1.683
-0.613	1.043							
942D	0.686	1.066	1.561	-0.531	1.668	1.681	1.865	1.865
-0.531	1.142							
943E	1.299	0.353	2.010	-0.842	2.050	1.722	1.439	2.050
-0.842	1.147							
944K	2.014	-0.426	2.094	-1.343	2.041	1.717	-0.006	2.094
-1.343	0.870							
945V	1.103	-1.258	1.832	-1.497	1.841	1.701	0.205	1.841
-1.497	0.561							
946Q	-0.111	-0.534	1.477	-1.542	1.531	1.218	0.649	1.531
-1.542	0.384							
947A	-0.471	-1.025	1.150	-1.387	1.166	0.618	-0.335	1.166
-1.387	-0.040							
948F	-0.471	-0.534	0.692	-1.468	0.483	0.023	-0.400	0.692
-1.468	-0.239							
949L	-0.104	-0.001	0.814	-1.651	0.492	0.022	-1.999	0.814
-1.999	-0.347							
950A	-0.155	1.016	0.683	-1.761	0.273	-0.001	-2.121	1.016
-2.121	-0.295							
951G	-0.155	1.848	0.926	-1.508	0.547	0.018	-0.891	1.848
-1.508	0.112							
952A	0.692	1.125	1.421	-1.234	1.066	0.639	-1.143	1.421
-1.234	0.367							
953T	1.634	0.800	1.954	-0.977	1.695	1.228	-1.513	1.954
-1.513	0.689							
954P	1.268	0.213	1.832	-1.098	1.686	1.230	0.086	1.832
-1.098	0.745							
955R	0.402	-0.242	1.702	-1.621	1.713	1.231	0.407	1.713
-1.621	0.513							
956K	0.035	-1.055	1.580	-2.178	1.704	1.233	2.006	2.006
-2.178	0.475							
957V	-0.528	-1.260	1.262	-2.591	1.540	1.215	2.554	2.554
-2.591	0.313							
958I	-0.528	-0.350	1.019	-2.729	1.267	1.196	1.324	1.324
-2.729	0.171							
959V	-0.433	-0.230	0.580	-2.563	0.747	0.571	1.325	1.325
-2.563	-0.000							
960V	-0.528	-0.230	0.561	-2.388	0.583	0.601	1.259	1.259
-2.388	-0.020							
961A	-0.876	0.475	0.599	-2.296	0.601	0.605	1.105	1.105
-2.296	0.031							
962G	-0.604	0.271	0.618	-2.281	0.610	0.605	1.372	1.372
-2.281	0.084							
963R	0.073	-0.452	1.038	-1.892	0.929	0.644	0.671	1.038
-1.892	0.144							
964L	-0.275	-1.590	1.075	-1.394	0.948	0.647	0.517	1.075
-1.590	-0.010							
965V	-0.642	-1.131	0.954	-0.630	0.938	0.649	2.116	2.116
-1.131	0.322							
966N	-1.508	-0.781	0.823	-0.418	0.966	0.651	2.437	2.437
-1.508	0.310							

967L	-1.773	-1.135	-0.065	-0.652	0.811	0.086	1.428	1.428
-1.773	-0.186							
968V	-1.192	-0.677	-0.439	-1.288	1.121	0.141	-0.017	1.121
-1.288	-0.336							
969I	-0.958	-0.326	-0.775	-1.484	1.449	0.199	-1.616	1.449
-1.616	-0.501							

[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 VTESPTAGPGGVPRADDADSDVPRYRYTAELAAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGLVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHPRTRTEANVNFRRQLGRLGFGHDSRRSFSTTDV DFYRWTQWIFLQIYNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGER ADVIDEYRLVYRADSLVNWCPLGLTVLANEEVTADGRSDRGNFPVFRKRLRQWM MRITAYADRLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNMGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWFARQRYWGEPFPIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPPDADSESPPLAKATEWVHVDLDLGDGLKPYSRDTNVMPQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFKGIGKSLKNSVPDEICDAYGADTLRVYEMSMGPLEASRPWATKD VVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAAALRN TATAKLIETYTNHLTKKHRDAVPRAAVEPLVQMLAPLAPHIAEELWLRGNTTSLAHG PFPKADAAYLVDETVEYPVQVNGKVRGRVVVAADTDEETLKAAVLTDEKVQAFLA GATPRKVIVVAGRLVNLVI ⁹⁶⁹
Hydrophilicity	¹ <u>VTESPTAGP</u> GGVPRADDADSDVPRYRYTAELAAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGLVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHP <u>RTRTEAN</u> VNFRRQLGRLGF <u>GHDSRRS</u> FSTTDV DFYRWTQWIFLQIYNAWF <u>DTTANKAR</u> PISELVAEFESGARCLDGGRDWAKL <u>TAGER</u>

	<p>ADVIDEYRLVYRADSLVNWCPGLGTVLANEEVTADGRSDRGNFPVFRKRLRQWM MRITAYADRLLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWLFARQRYWGEPFPIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPDDADSEPSPLAKATEWVHVDLDLGDGLKPYSRDTNVMPQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFGKIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWATKD VVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAALRNN TATAKLIEYTNHLTKKHRDAVPRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHG PFPKADAAYLVDETVEYPVQVNGKVRGRVVVAADTDEETLKAAVLTDEKVOAFLA GATPRKVIVVAGRLVNLVI⁹⁶⁹</p>
Flexibility	<p>¹VTESPTAGPGGVPRADDADSDVPRYRYTAELAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGLHVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDV DFYRWTQWIFLQIYNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGER ADVIDEYRLVYRADSLVNWCPGLGTVLANEEVTADGRSDRGNFPVFRKRLRQWM MRITAYADRLLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWLFARQRYWGEPFPIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPDDADSEPSPLAKATEWVHVDLDLGDGLKPYSRDTNVMPQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFGKIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWATKD VVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAALRNN TATAKLIEYTNHLTKKHRDAVPRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHG PFPKADAAYLVDETVEYPVQVNGKVRGRVVVAADTDEETLKAAVLTDEKVOAFLA GATPRKVIVVAGRLVNLVI⁹⁶⁹</p>
Accessibility	<p>¹VTESPTAGPGGVPRADDADSDVPRYRYTAELAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGLHVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDV DFYRWTQWIFLQIYNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGER ADVIDEYRLVYRADSLVNWCPGLGTVLANNEEVTADGRSDRGNFPVFRKRLRQWM MRITAYADRLLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWLFARQRYWGEPFPIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPDDADSEPSPLAKATEWVHVDLDLGDGLKPYSRDTNVMPQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFGKIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWATKD</p>

	<p>VVG<u>AYRFLQR</u>VWRLVV<u>DEHTGETR</u>VADGVELDIDTLRALHRTIVGVSEDFAA<u>LRNN</u> <u>TATAKLIEYTNHLTKKHRDAV</u>PRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHG PFPKADAAYLV<u>DETVEY</u>PVQV<u>NGKVRGR</u>VVV<u>AADTDEETLKA</u>AV<u>LTDEKVQA</u>FLA <u>GATPRK</u>VIVVAGRLVNLVI⁹⁶⁹</p>
Turns	<p>¹VTESPTAGPGGVPRADDADSDVPRYRYTAELAAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGHLVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDV DFYRWTQWIFLQIYNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGER ADVIDEYRLVYRADSLVNWCPLGTVLANEEVTADGRSDRGNFPVFRKRLRQWM MRITAYADRLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAAKSDLERQESREKTGVFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNMGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWLFARQRYWGEPPFIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPPDADSEPSPLAKATEWVHVDLGLDGLKPYSRDTNVMQWAGSSWYE <u>LRYTDPHNSER</u>FCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHVSSREPYRRLVNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFKGIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWATKD VVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAA<u>LRNN</u> <u>TATAKLIEYTNHLTKKHRDAV</u>PRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHG PFPKADAAYLV<u>DETVEY</u>PVQV<u>NGKVRGR</u>VVV<u>AADTDEETLKA</u>AV<u>LTDEKVQA</u>FLA <u>GATPRK</u>VIVVAGRLVNLVI⁹⁶⁹</p>
Exposed Surface	<p>¹VTESPTAGPGGVPRADDADSDVPRYRYTAELAAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGEGHLVGHPLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQTGTHPRTRTEANVVNFRRQLGRLGFGHDSRRSFSTTDV DFYRWTQWIFLQIYNAWFDTTANKARPISELVAEFESGARCLDGGRDWAKLTAGER ADVIDEYRLVYRADSLVNWCPLGTVLANEEVTADGRSDRGNFPV<u>FRKRLRQW</u>M MRITAYADRLDDLDVLDWPEQVKTMQRNWIGRSTGAVALFSARAASDDGFEVDIE VFTTRPDTLFGATYLVLAPEHDLVDELVAASWPAGVNPLWTYGGGTPGEAIAAYRR AIAA<u>KSDLERQESREKTG</u>VFLGSYAINPANGEPVPIFIADYVLAGYGTGAIMAVPGHD QRDWDFARAFGLPIVEVIAGGNISESAYTGDGILVNSDYLNMGMSVPAAKRAIVDRLE SAGRGRARIEFKLRDWLFARQRYWGEPPFIVYDSDGRPHALDEAALPVELPDVPDY SPVLFDPPDADSEPSPLAKATEWVHVDLGLDGL<u>LKPYSRDT</u>NVMQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDPGGVDLYVGGAEHAVLHLLYSR FWHKVLYDLGHV<u>SSREPYRRL</u>VNQGYIQAYAYTDARGSYVPAEQVIERGDRFVYPG PDGEVEVFQEFKGIGKSLKNSVSPDEICDAYGADTLRVYEMSMGPLEASRPWATKD VVGAYRFLQRVWRLVVDEHTGETRVADGVELDIDTLRALHRTIVGVSEDFAA<u>LRNN</u> <u>TATAKLIEYTNHLTKKHRDAV</u>PRAAVEPLVQMLAPLAPHIAEELWLRLGNTTSLAHG PFPKADAAYLV<u>DETVEY</u>PVQV<u>NGKVRGR</u>VVV<u>AADTDEETLKA</u>AV<u>LTDEKVQA</u>FLA <u>GATPRK</u>VIVVAGRLVNLVI⁹⁶⁹</p>
Polarity	<p>¹VTESPTAGPGGV<u>PRADDADSDV</u><u>PRYRYTAELAAARLERTWQEN</u>WARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSG<u>EGLHVGHP</u>PLGYIATDVYARYFRMVGRNVL HALGFDAFGLPAEQYAVQT<u>GTHPRTRTEAN</u>VVN<u>FRRQLGRL</u><u>GFGHDSRRSF</u>STTDV DFYRWTQWIFLQIYNAWFDTTAN<u>KARPISELVAEFESGARCLDGGRDWAKLTAGER</u> <u>ADVIDEYRLVYR</u>ADSLVNWCPLGTVLANEEVT<u>ADGRSDRGNFPVFRKRLRQWM</u></p>

	<p>MRITAY<u>ADRL</u><u>LLDDL</u><u>DVLD</u>WPEQVKTMQRNWIGRSTGAVALFSARAAS<u>DDGFE</u><u>VDIE</u> VFTTRPDTLFGATYLVLA<u>PEHDL</u><u>VDEL</u>VAASWPAGVNPLWTYGGGTPGEAIAAYRR <u>AIAAK</u><u>SDLER</u><u>QESREKT</u><u>GVFL</u>GSYAINPANGEPVPIFIADYVLAGYGTGAIMAV<u>PGHD</u> <u>QRD</u><u>WDFAR</u><u>AFGL</u><u>PIVE</u><u>VIAG</u><u>GNISE</u><u>SAYT</u><u>GDG</u><u>ILVNS</u><u>DYLN</u><u>GMS</u><u>VPAA</u><u>KRAI</u><u>VDRL</u><u>E</u> <u>SAGR</u><u>GRARIE</u><u>FKL</u><u>RDW</u><u>LFAR</u><u>QRY</u><u>WGE</u>PFPIVY<u>DSD</u><u>GR</u><u>PHAL</u><u>DE</u>AALPVELPDVDPDY SPVL<u>FDP</u><u>DDAD</u><u>SE</u><u>SP</u><u>PLA</u><u>KATE</u><u>WVH</u>VDDLGDGLKPYSRDTNVMPQWAGSSWYE LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDP<u>GGVD</u><u>LYVGG</u><u>AEH</u><u>AVL</u><u>HLL</u><u>YSR</u> <u>FWH</u><u>KVLY</u><u>DLGH</u><u>VSS</u><u>RE</u><u>PYRR</u><u>LVN</u><u>QGYI</u><u>QAY</u><u>AYT</u><u>DARG</u><u>SYVP</u><u>AEQ</u><u>VI</u><u>ERG</u><u>DR</u><u>FV</u><u>Y</u><u>P</u><u>G</u> PDGE<u>VE</u><u>V</u><u>FQ</u><u>E</u><u>F</u><u>G</u><u>K</u><u>I</u><u>G</u><u>K</u><u>S</u><u>L</u><u>K</u><u>N</u><u>S</u><u>V</u><u>S</u><u>P</u><u>D</u><u>E</u><u>I</u><u>C</u><u>D</u><u>A</u><u>Y</u><u>G</u><u>A</u><u>D</u><u>T</u><u>L</u><u>R</u><u>V</u><u>E</u><u>M</u><u>S</u><u>M</u><u>G</u><u>P</u><u>L</u><u>E</u><u>A</u><u>S</u><u>R</u><u>P</u><u>W</u><u>A</u><u>T</u><u>K</u><u>D</u> VVGAYRFLQRVW<u>RLV</u><u>VDE</u><u>H</u><u>T</u><u>GET</u><u>RV</u>ADGVELDIDTLRAL<u>HRTI</u><u>VG</u><u>SE</u><u>D</u><u>F</u><u>A</u><u>A</u><u>L</u><u>R</u><u>N</u> TATAKLIETY<u>TNHL</u><u>TKK</u><u>KHR</u><u>DA</u><u>V</u><u>P</u><u>R</u><u>A</u><u>A</u><u>V</u><u>E</u><u>P</u><u>L</u><u>V</u><u>Q</u><u>M</u><u>L</u><u>A</u><u>P</u><u>L</u><u>A</u><u>P</u><u>H</u><u>I</u><u>A</u><u>E</u><u>E</u><u>L</u><u>W</u><u>L</u><u>R</u><u>L</u><u>G</u><u>N</u><u>T</u><u>T</u><u>S</u><u>L</u><u>A</u><u>H</u><u>G</u> PFPKADAAYLVDETVEYPVQV<u>NGK</u><u>V</u><u>R</u><u>G</u><u>R</u><u>V</u><u>V</u><u>A</u><u>A</u><u>D</u><u>T</u><u>D</u><u>E</u><u>E</u><u>T</u><u>L</u><u>K</u><u>A</u><u>A</u><u>V</u><u>L</u><u>T</u><u>D</u><u>E</u><u>K</u><u>V</u><u>Q</u><u>A</u><u>F</u><u>L</u><u>A</u> GATPRKVIVVAGRLVNLVI⁹⁶⁹</p>
Antigenic Propensity	<p>¹VTESPTAGPGGVPRADDADSDVPRYRYTAELAAARLERTWQENWARLGTFNVPNPV GSLAPPDGAAVPDDKLFVQDMFPYPSGE<u>GLH</u><u>VGH</u><u>PL</u><u>G</u><u>Y</u><u>I</u><u>A</u><u>T</u><u>D</u><u>V</u><u>Y</u><u>A</u><u>R</u><u>Y</u><u>F</u><u>R</u><u>M</u><u>V</u><u>G</u><u>R</u><u>N</u><u>V</u><u>L</u> <u>H</u><u>A</u><u>L</u><u>G</u><u>F</u><u>D</u><u>A</u><u>F</u><u>G</u><u>L</u><u>P</u><u>A</u><u>E</u><u>Q</u><u>Y</u><u>A</u><u>V</u><u>Q</u><u>T</u><u>G</u><u>H</u><u>P</u><u>R</u><u>T</u><u>R</u><u>T</u><u>E</u><u>A</u><u>N</u><u>V</u><u>V</u><u>N</u><u>F</u><u>R</u><u>R</u><u>Q</u><u>L</u><u>G</u><u>R</u><u>L</u><u>G</u><u>F</u><u>G</u><u>H</u><u>D</u><u>S</u><u>R</u><u>R</u><u>S</u><u>F</u><u>S</u><u>T</u><u>T</u><u>D</u><u>V</u> DFYRWTQ<u>WIF</u><u>LQI</u><u>Y</u><u>N</u><u>A</u><u>W</u><u>F</u><u>D</u><u>T</u><u>T</u><u>A</u><u>N</u><u>K</u><u>A</u><u>R</u><u>P</u><u>I</u><u>S</u><u>E</u><u>L</u><u>V</u><u>A</u><u>E</u><u>F</u><u>E</u><u>S</u><u>G</u><u>A</u><u>R</u><u>C</u><u>L</u><u>D</u><u>G</u><u>G</u><u>R</u><u>D</u><u>W</u><u>A</u><u>K</u><u>L</u><u>T</u><u>A</u><u>G</u><u>E</u><u>R</u> ADVIDEYRLVYRAD<u>SLV</u><u>N</u><u>W</u><u>C</u><u>P</u><u>G</u><u>L</u><u>G</u><u>T</u><u>V</u><u>L</u><u>A</u><u>N</u><u>E</u><u>E</u><u>V</u><u>T</u><u>A</u><u>D</u><u>G</u><u>R</u><u>S</u><u>D</u><u>R</u><u>G</u><u>N</u><u>F</u><u>P</u><u>V</u><u>R</u><u>K</u><u>R</u><u>L</u><u>R</u><u>Q</u><u>W</u><u>M</u> MRITAYADRL<u>LLDDL</u><u>DVLD</u>WPEQVKTMQRNWIGRSTGAVALFSARAASDDGFE<u>VDIE</u> <u>VFT</u><u>TRP</u><u>DTL</u><u>FG</u><u>AT</u><u>Y</u><u>L</u><u>V</u><u>L</u><u>A</u><u>P</u><u>E</u><u>H</u><u>D</u><u>L</u><u>V</u><u>D</u><u>E</u><u>L</u><u>V</u><u>A</u><u>A</u><u>S</u><u>W</u><u>P</u><u>A</u><u>G</u><u>V</u><u>N</u><u>P</u><u>L</u><u>W</u><u>T</u><u>Y</u><u>G</u><u>G</u><u>G</u><u>T</u><u>P</u><u>G</u><u>E</u><u>A</u><u>I</u><u>A</u><u>A</u><u>Y</u><u>R</u><u>R</u> AIAAKSDLERQESREKT<u>GVFL</u><u>GSY</u><u>A</u><u>I</u><u>N</u><u>P</u><u>A</u><u>N</u><u>G</u><u>E</u><u>P</u><u>V</u><u>P</u><u>I</u><u>F</u><u>I</u><u>A</u><u>D</u><u>Y</u><u>V</u><u>L</u><u>A</u><u>G</u><u>Y</u><u>G</u><u>T</u><u>G</u><u>A</u><u>I</u><u>M</u><u>A</u><u>V</u><u>P</u><u>G</u><u>H</u><u>D</u> QRDWDFAFA<u>FGL</u><u>PIVE</u><u>VI</u><u>AG</u><u>GNISE</u><u>SAYT</u><u>GDG</u><u>ILVNS</u><u>DYLN</u><u>GMS</u><u>VPAA</u><u>KRAI</u><u>VDRL</u><u>E</u> SAGRGRARIEFKL RDWLFARQRYWGE<u>EP</u><u>F</u><u>P</u><u>I</u><u>V</u><u>Y</u><u>D</u><u>S</u><u>D</u><u>G</u><u>R</u><u>P</u><u>H</u><u>A</u><u>L</u><u>D</u><u>E</u><u>A</u><u>A</u><u>L</u><u>P</u><u>V</u><u>E</u><u>L</u><u>P</u><u>D</u><u>V</u><u>P</u><u>D</u><u>Y</u> <u>SP</u><u>V</u><u>L</u><u>F</u><u>D</u><u>P</u><u>D</u><u>D</u><u>A</u><u>D</u><u>S</u><u>E</u><u>P</u><u>S</u><u>P</u><u>L</u><u>A</u><u>K</u><u>A</u><u>T</u><u>E</u><u>W</u><u>V</u><u>H</u><u>V</u><u>D</u><u>L</u><u>D</u><u>L</u><u>G</u><u>D</u><u>G</u><u>L</u><u>K</u><u>P</u><u>Y</u><u>S</u><u>R</u><u>D</u><u>T</u><u>N</u><u>V</u><u>M</u><u>P</u><u>Q</u><u>W</u><u>A</u><u>G</u><u>S</u><u>S</u><u>W</u><u>Y</u><u>E</u> LRYTDPHNSERFCAKENEAYWMGPRPAEHGPDDP<u>GGVD</u><u>LYVGG</u><u>AEH</u><u>AVL</u><u>HLL</u><u>YSR</u> <u>FWH</u><u>KVLY</u><u>DLGH</u><u>V</u><u>S</u><u>S</u><u>R</u><u>E</u><u>P</u><u>Y</u><u>R</u><u>R</u><u>LV</u><u>N</u><u>Q</u><u>G</u><u>Y</u><u>I</u><u>Q</u><u>A</u><u>Y</u><u>A</u><u>Y</u><u>T</u><u>D</u><u>A</u><u>R</u><u>G</u><u>S</u><u>Y</u><u>V</u><u>P</u><u>A</u><u>E</u><u>Q</u><u>VI</u><u>ER</u><u>G</u><u>DR</u><u>F</u><u>V</u><u>Y</u><u>P</u><u>G</u> PDGE<u>VE</u><u>V</u><u>F</u><u>Q</u><u>E</u><u>F</u><u>G</u><u>K</u><u>I</u><u>G</u><u>K</u><u>S</u><u>L</u><u>K</u><u>N</u><u>S</u><u>V</u><u>S</u><u>P</u><u>D</u><u>E</u><u>I</u><u>C</u><u>D</u><u>A</u><u>Y</u><u>G</u><u>A</u><u>D</u><u>T</u><u>L</u><u>R</u><u>V</u><u>E</u><u>M</u><u>S</u><u>M</u><u>G</u><u>P</u><u>L</u><u>E</u><u>A</u><u>S</u><u>R</u><u>P</u><u>W</u><u>A</u><u>T</u><u>K</u><u>D</u> VVGAYRFLQRVW<u>RLV</u><u>VDE</u><u>H</u><u>T</u><u>GET</u><u>RV</u>ADGVELDIDTLRAL<u>HRTI</u><u>VG</u><u>SE</u><u>D</u><u>F</u><u>A</u><u>A</u><u>L</u><u>R</u><u>N</u> TATAKLIETY<u>TNHL</u><u>TKK</u><u>KHR</u><u>DA</u><u>V</u><u>P</u><u>R</u><u>A</u><u>A</u><u>V</u><u>E</u><u>P</u><u>L</u><u>V</u><u>Q</u><u>M</u><u>L</u><u>A</u><u>P</u><u>L</u><u>A</u><u>P</u><u>H</u><u>I</u><u>A</u><u>E</u><u>E</u><u>L</u><u>W</u><u>L</u><u>R</u><u>L</u><u>G</u><u>N</u><u>T</u><u>T</u><u>S</u><u>L</u><u>A</u><u>H</u><u>G</u> PFPKADAAYLVDETVEYPVQV<u>NGK</u><u>V</u><u>R</u><u>G</u><u>R</u><u>V</u><u>V</u><u>A</u><u>A</u><u>D</u><u>T</u><u>D</u><u>E</u><u>E</u><u>T</u><u>L</u><u>K</u><u>A</u><u>A</u><u>V</u><u>L</u><u>T</u><u>D</u><u>E</u><u>K</u><u>V</u><u>Q</u><u>A</u><u>F</u><u>L</u><u>A</u> GATPRKVIVVAGRLVNLVI⁹⁶⁹</p>

[TOP](#)

[Home](#)