BcePred Prediction Server

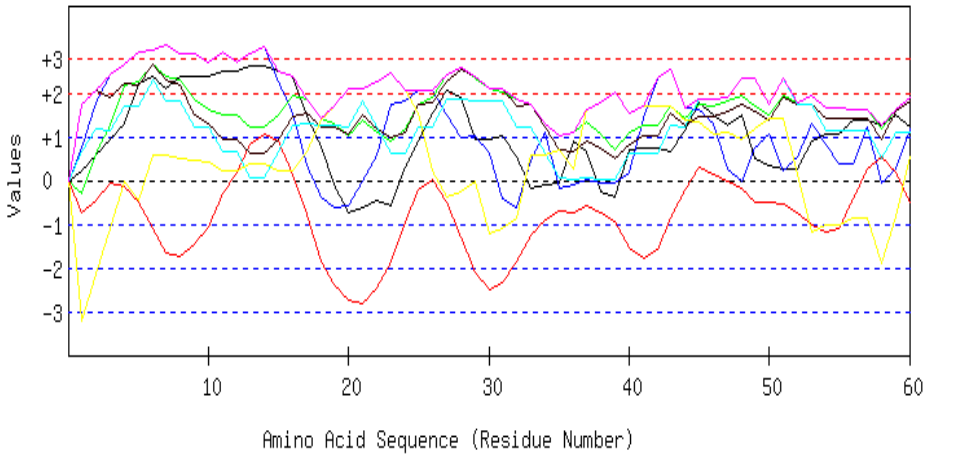
The server displays 1.GRAPHICAL RESULT 2.TABULAR RESULT 3.Overlap Display

seqname=
Seq= LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASD
VP
AKYKSQPWARLGVNVDADFEPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIA
WHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDAQETRRILDRLYGYEVSP
VLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFS
ARLTAVAGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYA
RRPYPPFMTSTLQQEASRKLRFSAERTMSIAQRLYENGYITYMRTDSTTLSESAINAART
QARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRRELDGPNIDDFRLY
ELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVG
GEADDAERRLPHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSI
IKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQHFGRLVDYDFTAAMEDELDEIAAGNERR
TNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRPIYVRVG
KNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHE
IVAREGRFGPYVTEILPEPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDA
LRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDSRSLVTEDQIFTITLDEALKIYAE
PKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDER
AAELLADRRARGPAKRPARKAARKVPAKKAAKRD

Length=934

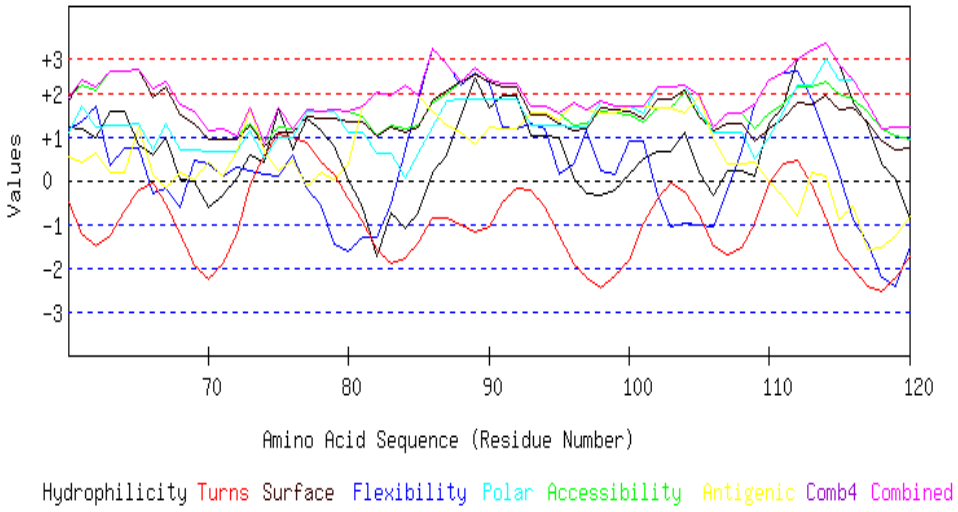
GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60

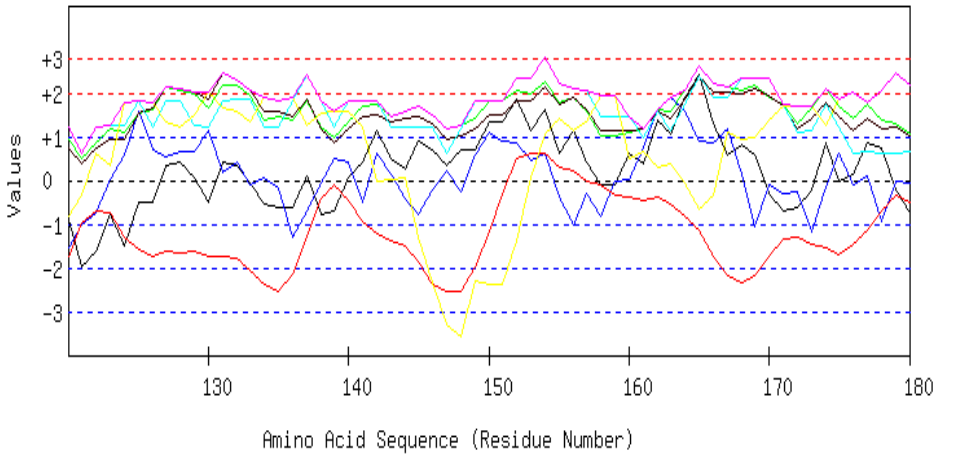


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

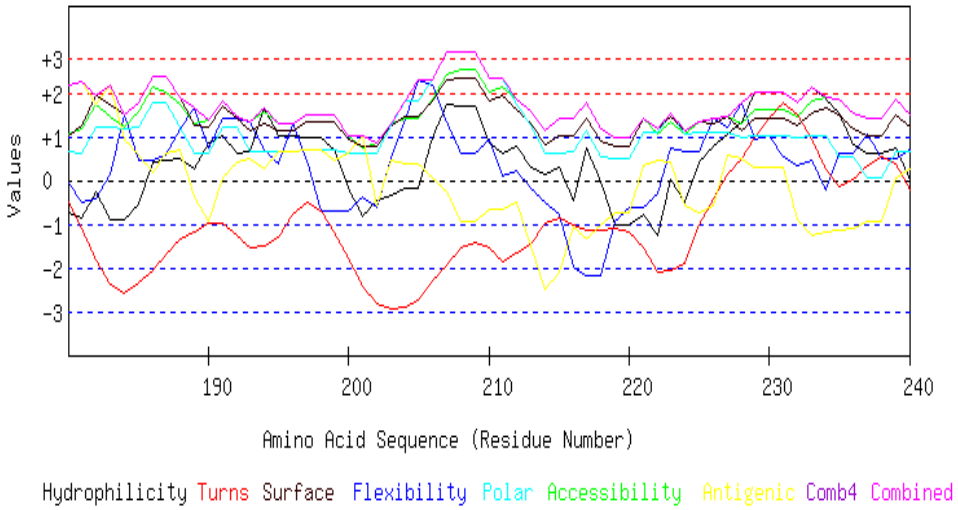
GRAPHICAL RESULT :: SEQ 61 to 120



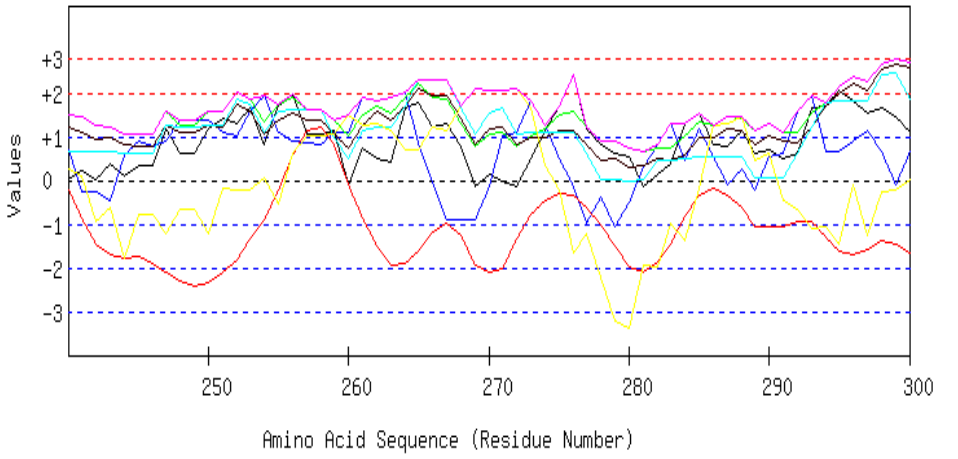
GRAPHICAL RESULT :: SEQ 121 to 180



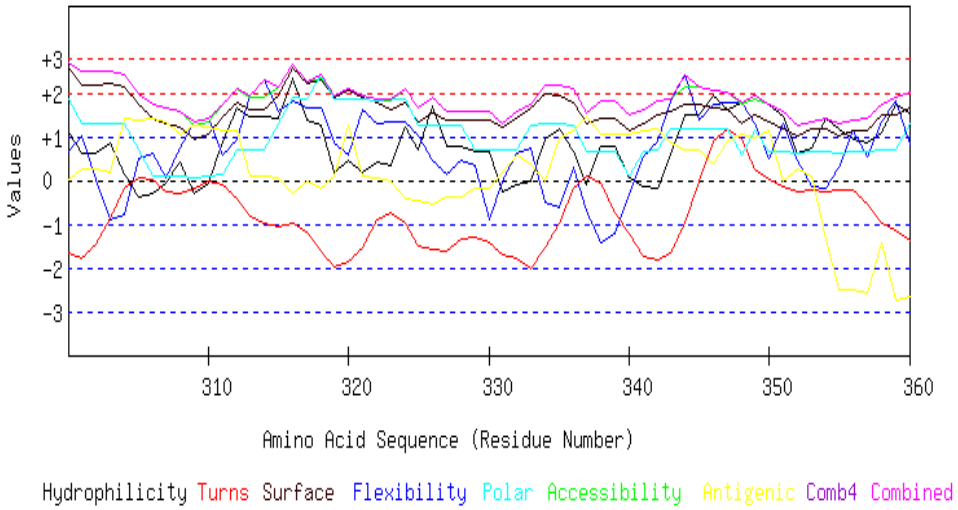
GRAPHICAL RESULT :: SEQ 181 to 240



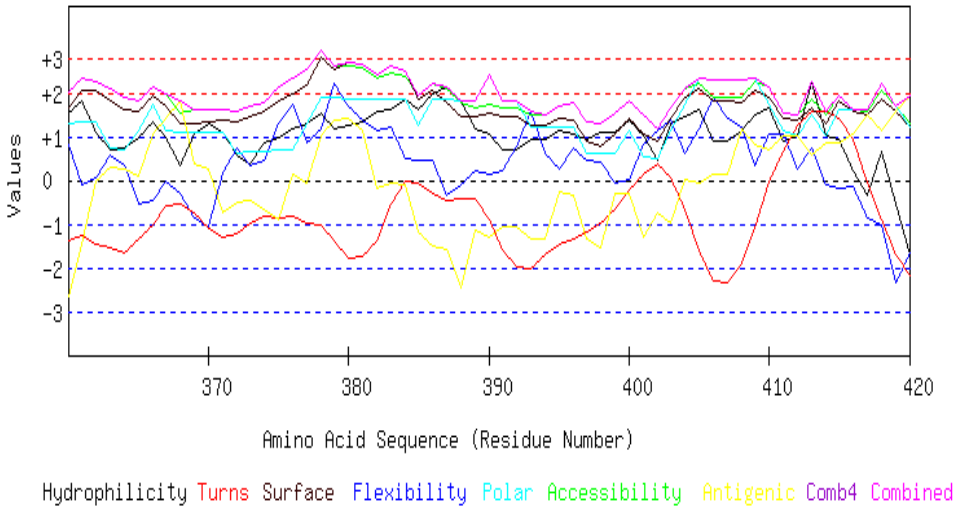
GRAPHICAL RESULT :: SEQ 241 to 300



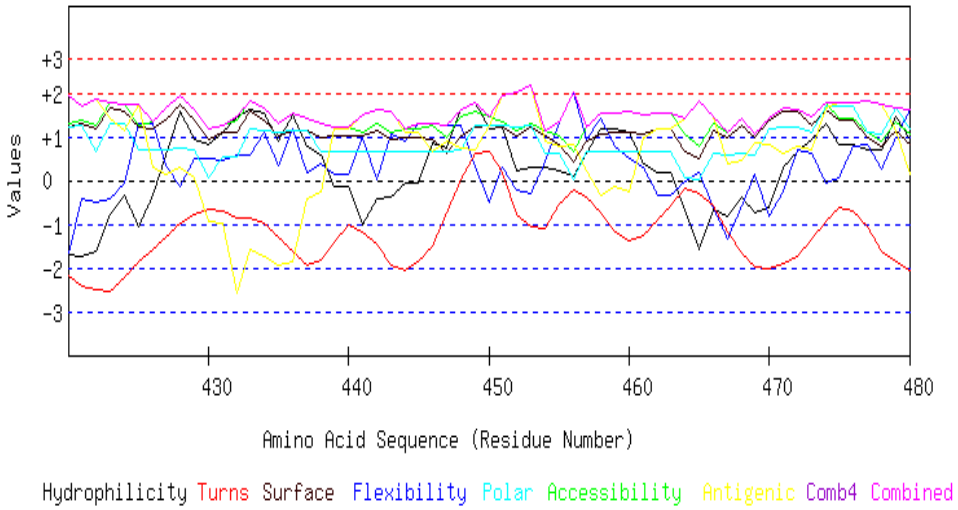
GRAPHICAL RESULT :: SEQ 301 to 360



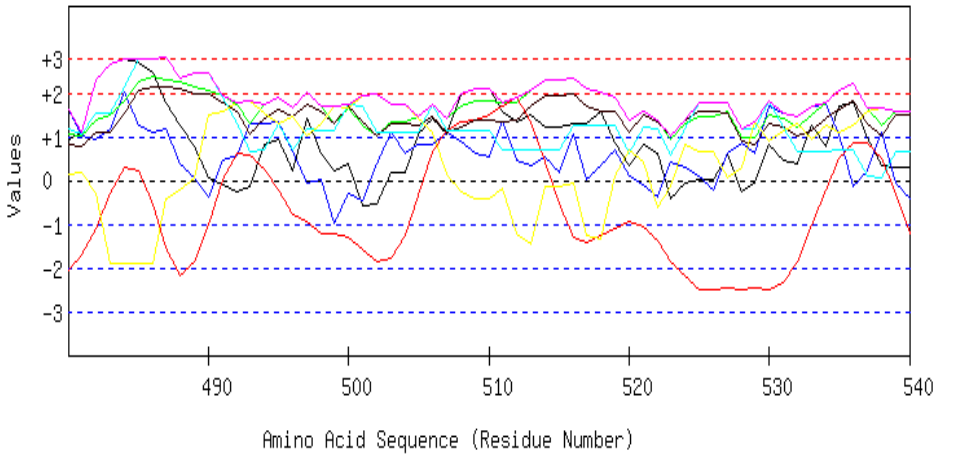
GRAPHICAL RESULT :: SEQ 361 to 420



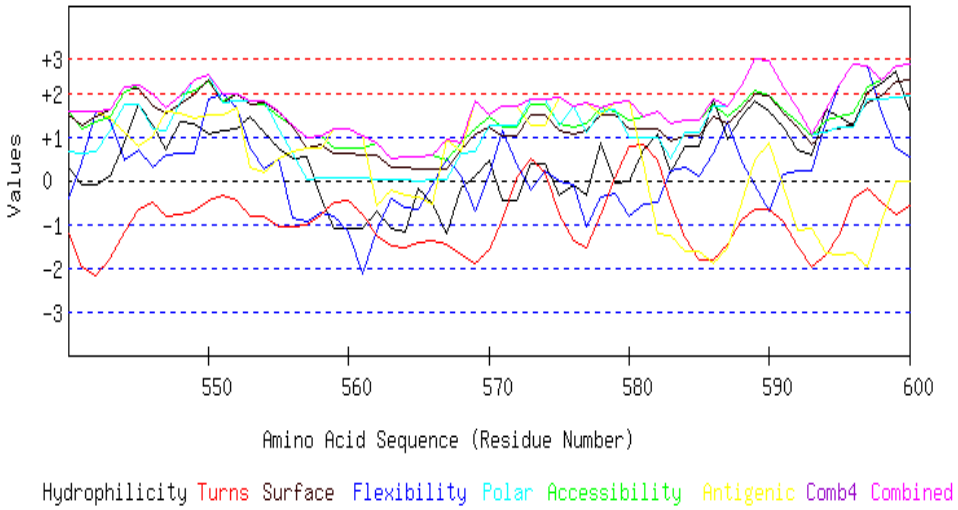
GRAPHICAL RESULT :: SEQ 421 to 480



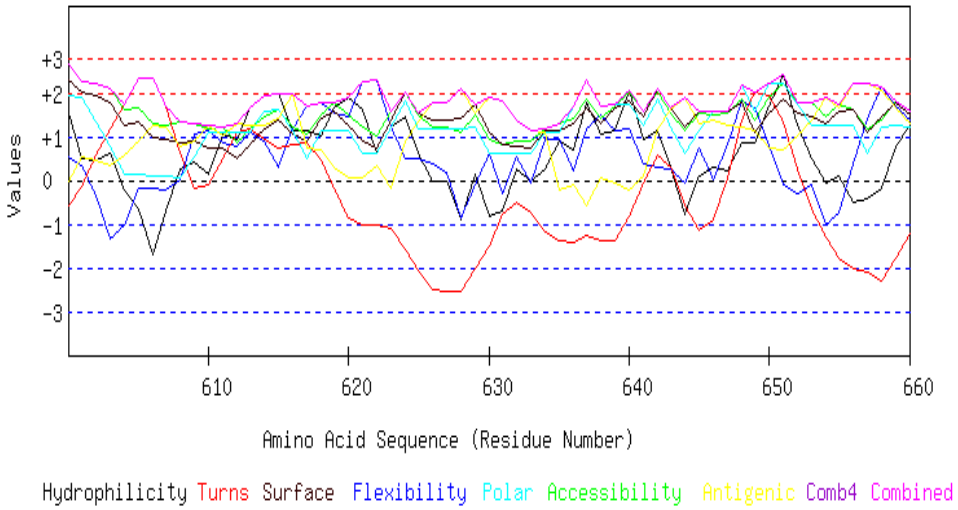
GRAPHICAL RESULT :: SEQ 481 to 540



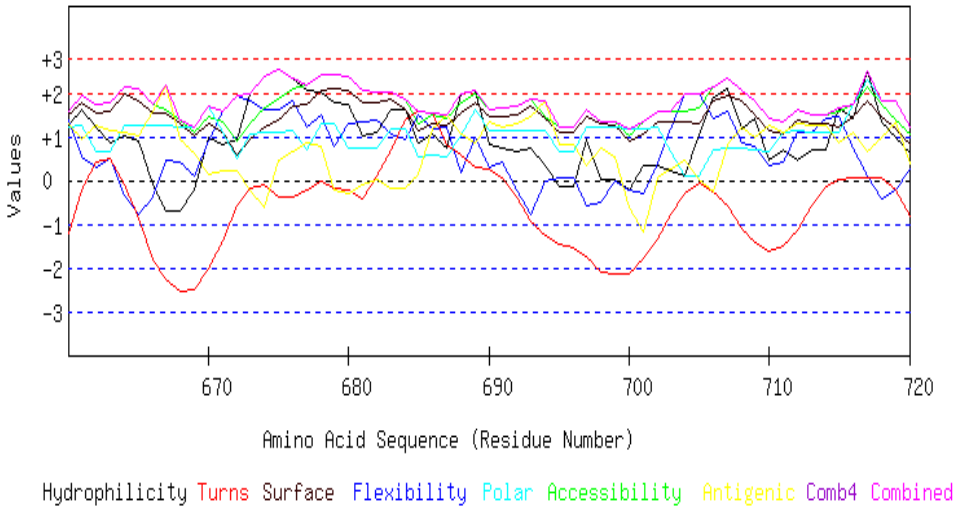
GRAPHICAL RESULT :: SEQ 541 to 600



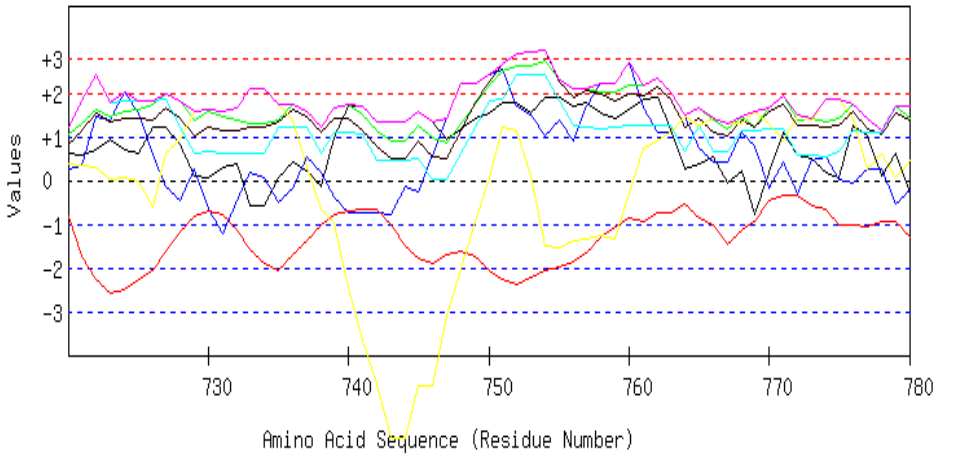
GRAPHICAL RESULT :: SEQ 601 to 660



GRAPHICAL RESULT :: SEQ 661 to 720

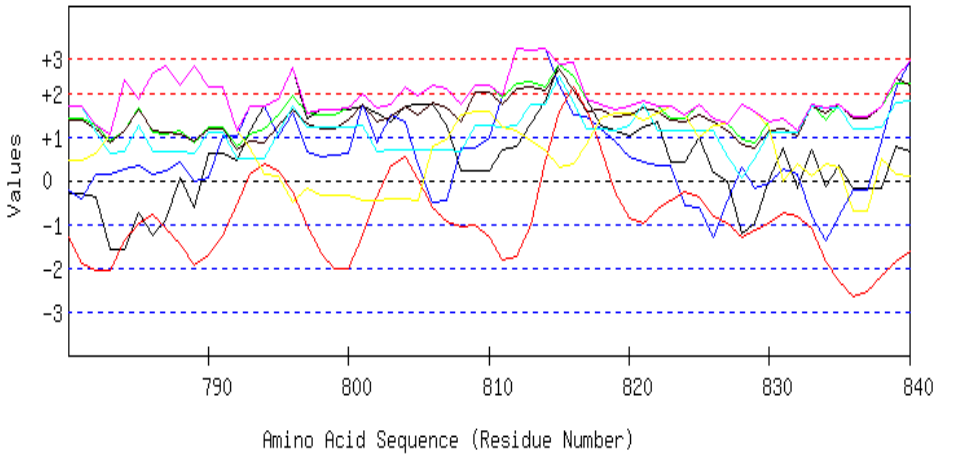


GRAPHICAL RESULT :: SEQ 721 to 780

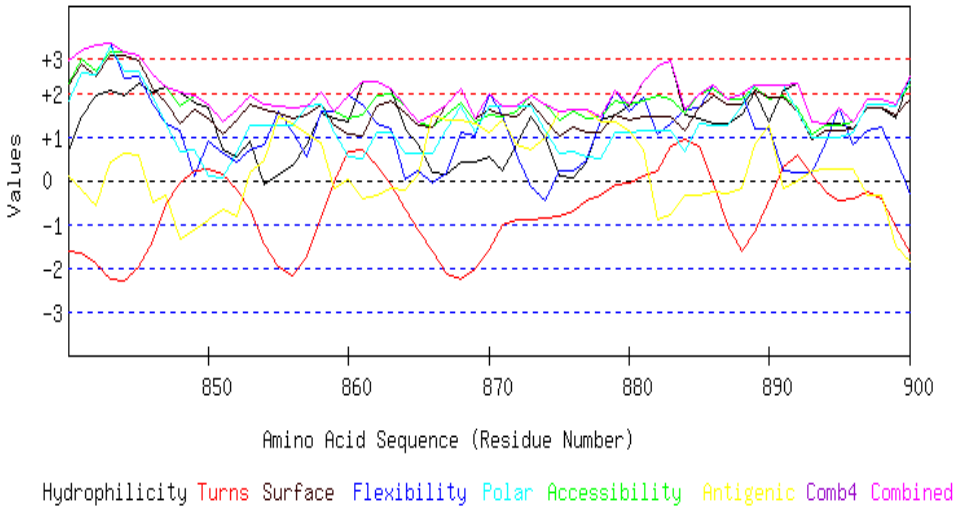


Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

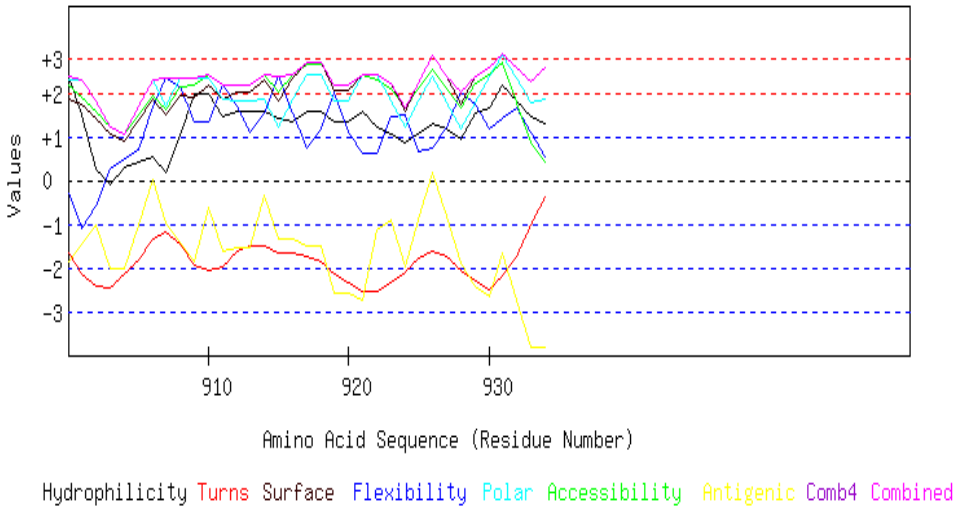
GRAPHICAL RESULT :: SEQ 781 to 840



GRAPHICAL RESULT :: SEQ 841 to 900



GRAPHICAL RESULT :: SEQ 901 to 960



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

LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVP
AKYKSQPWARLGVNVDADFEPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIA
WHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDAQETRRILDRLYGYEVSP
VLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFS
ARLTAVAGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYA
RRPYPPFMTSTLQQEASRKLRFSAERTMSIAQRLYENGYITYMRTDSTTLSESAINAART
QARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRRELDGPNIDDFRLY
ELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVG
GEADDAERRLPHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSI
IKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQHFGRLVDYDFTAAMEDELDEIAAGNERR
TNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRPIYVRVG
KNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHE

IVAREGRFGPYVTEILPEPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDA
LRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDSRSLVTEDQIFTITLDEALKIYAE
PKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDER
AAELLADRRARGPAKRPARKAARKVPAKKAAKRD

Length=934

A.A. **Parameter Combined**

		Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1	L	0.237	0.742	-0.298	-0.753	1.759	0.663	-3.213	1.759	-3.213	-0.123
2	A	0.598	1.778	0.608	-0.446	2.078	1.198	-2.138	2.078	-2.138	0.525
3	D	0.926	2.405	1.262	-0.060	1.914	1.158	-1.087	2.405	-1.087	0.931
4	P	1.287	2.679	2.169	-0.128	2.233	1.692	-0.012	2.679	-0.128	1.417
5	K	2.229	2.948	2.244	-0.510	2.178	1.687	-0.446	2.948	-0.510	1.476
6	T	2.362	2.972	2.674	-1.119	2.652	2.312	0.563	2.972	-1.119	1.773
7	K	2.090	3.108	2.393	-1.656	2.287	1.823	0.572	3.108	-1.656	1.517
8	G	2.368	2.904	2.300	-1.737	2.169	1.824	0.512	2.904	-1.737	1.477
9	R	2.368	2.886	1.842	-1.458	1.485	1.229	0.447	2.886	-1.458	1.257
10	G	2.399	2.699	1.636	-1.064	1.285	1.209	0.407	2.699	-1.064	1.225
11	S	2.482	2.928	1.487	-0.301	0.957	0.655	0.229	2.928	-0.301	1.205
12	G	2.482	2.699	1.487	0.176	0.957	0.655	0.229	2.699	0.176	1.241
13	G	2.627	2.886	1.206	0.814	0.638	0.051	0.390	2.886	0.051	1.230
14	N	2.627	3.072	1.206	1.078	0.638	0.051	0.390	3.072	0.051	1.294
15	G	2.482	2.259	1.487	0.880	0.957	0.655	0.229	2.482	0.229	1.278
16	S	2.387	1.535	1.926	0.153	1.476	1.280	0.228	2.387	0.153	1.284
17	G	1.445	0.355	1.851	-0.782	1.531	1.285	0.662	1.851	-0.782	0.907
18	R	0.768	-0.368	1.431	-1.864	1.212	1.246	1.364	1.431	-1.864	0.541
19	R	-0.098	-0.607	1.300	-2.399	1.239	1.248	1.686	1.686	-2.399	0.338
20	L	-0.743	-0.564	1.029	-2.741	1.075	1.230	2.114	2.114	-2.741	0.200
21	V	-0.610	-0.001	1.365	-2.801	1.485	1.829	2.088	2.088	-2.801	0.479
22	I	-0.465	0.586	1.085	-2.474	1.166	1.224	2.249	2.249	-2.474	0.482
23	V	-0.597	1.742	0.898	-1.868	0.966	0.619	2.469	2.469		

-1.868 0.604
24 E 0.313 1.838 1.178 -0.928 1.112 0.633 2.075 2.075
-0.928 0.889
25 S 0.907 2.076 1.748 -0.229 1.759 1.226 1.551 2.076
-0.229 1.291
26 P 1.546 2.052 1.889 0.012 1.777 1.225 0.220 2.052
0.012 1.246
27 T 2.045 1.489 2.440 -0.514 2.260 1.848 -0.370 2.440
-0.514 1.314
28 K 1.913 0.998 2.561 -1.287 2.533 1.843 -0.279 2.561
-1.287 1.183
29 A 0.920 1.022 2.328 -2.093 2.388 1.828 -0.003 2.388
-2.093 0.913
30 R 0.920 0.616 2.085 -2.489 2.114 1.809 -1.234 2.114
-2.489 0.546
31 K 1.002 -0.402 2.038 -2.352 2.114 1.809 -1.114 2.114
-2.352 0.442
32 L 0.522 -0.607 1.842 -1.865 1.713 1.234 -0.847 1.842
-1.865 0.285
33 A -0.193 0.453 1.758 -1.271 1.722 1.239 0.598 1.758
-1.271 0.615
34 S -0.098 1.080 1.318 -0.887 1.203 0.615 0.599 1.318
-0.887 0.547
35 Y -0.047 -0.182 1.019 -0.684 0.720 0.040 0.694 1.019
-0.684 0.223
36 L 0.895 -0.100 1.094 -0.737 0.665 0.035 0.259 1.094
-0.737 0.302
37 G 0.642 0.009 1.346 -0.598 0.902 0.054 1.601 1.601
-0.598 0.565
38 S -0.275 -0.044 1.057 -0.722 0.729 0.036 1.763 1.763
-0.722 0.363
39 G -0.389 -0.044 0.683 -0.955 0.483 0.018 2.020 2.020
-0.955 0.259
40 Y 0.686 0.185 1.094 -1.536 0.838 0.612 1.558 1.558
-1.536 0.491
41 I 0.737 1.405 1.253 -1.785 1.039 0.632 1.718 1.718
-1.785 0.714
42 V 0.737 2.357 1.253 -1.577 1.039 0.632 1.718 2.357
-1.577 0.880
43 E 0.642 2.543 1.692 -0.846 1.558 1.257 1.717 2.543
-0.846 1.223
44 S 1.122 1.644 1.431 -0.223 1.276 1.238 1.385 1.644
-0.223 1.125
45 S 1.761 1.601 1.730 0.280 1.467 1.856 1.331 1.856
0.280 1.432
46 R 1.489 1.285 1.711 0.151 1.458 1.856 1.064 1.856
0.151 1.288
47 G 1.261 0.267 1.814 -0.018 1.567 1.881 1.089 1.881
-0.018 1.123
48 H 1.483 -0.001 1.935 -0.194 1.731 2.350 0.920 2.350
-0.194 1.175
49 I 0.490 0.722 1.702 -0.492 1.586 2.335 1.195 2.335
-0.492 1.077
50 R 0.357 1.046 1.515 -0.491 1.385 1.729 1.416 1.729
-0.491 0.994
51 D 0.263 0.233 1.954 -0.540 1.905 2.354 1.415 2.354
-0.540 1.083
52 L 0.263 0.550 1.795 -0.742 1.731 1.734 0.138 1.795
-0.742 0.781

53 P	0.901	1.293	1.935	-1.033	1.750	1.732	-1.194	1.935	
-1.194	0.769								
54 R	1.046	0.838	1.655	-1.180	1.431	1.128	-1.034	1.655	
-1.180	0.555								
55 A	1.046	0.383	1.655	-1.090	1.431	1.128	-1.034	1.655	
-1.090	0.503								
56 A	1.394	0.383	1.617	-0.423	1.412	1.124	-0.880	1.617	
-0.880	0.661								
57 S	1.394	1.215	1.617	0.270	1.412	1.124	-0.880	1.617	
-0.880	0.879								
58 D	1.261	-0.048	1.188	0.545	0.938	0.499	-1.889	1.261	
-1.889	0.356								
59 V	1.489	0.245	1.636	0.189	1.576	1.094	-0.814	1.636	
-0.814	0.774								
60 P	1.236	1.197	1.889	-0.482	1.813	1.113	0.528	1.889	
-0.482	1.042								
61 A	1.186	1.329	2.188	-1.221	2.296	1.688	0.434	2.296	
-1.221	1.128								
62 K	0.964	1.688	2.066	-1.497	2.132	1.219	0.602	2.132	
-1.497	1.025								
63 Y	1.578	0.353	2.515	-1.271	2.515	1.260	0.177	2.515	
-1.271	1.018								
64 K	1.578	0.760	2.515	-0.717	2.515	1.260	0.177	2.515	
-0.717	1.155								
65 S	0.813	0.742	2.533	-0.227	2.533	1.285	1.209	2.533	
-0.227	1.270								
66 Q	0.585	-0.318	2.085	-0.050	1.895	0.691	0.134	2.085	
-0.318	0.717								
67 P	0.971	-0.182	2.262	-0.537	2.132	1.296	-0.199	2.262	
-0.537	0.821								
68 W	0.029	-0.637	1.730	-1.202	1.504	0.707	0.171	1.730	
-1.202	0.329								
69 A	-0.022	0.475	1.571	-1.945	1.303	0.687	0.012	1.571	
-1.945	0.297								
70 R	-0.635	0.379	1.122	-2.273	0.920	0.646	0.437	1.122	
-2.273	0.085								
71 L	-0.325	0.105	1.178	-1.899	0.957	0.667	0.104	1.178	
-1.899	0.112								
72 G	0.073	0.309	1.038	-1.219	0.929	0.644	0.671	1.038	
-1.219	0.349								
73 V	0.572	0.221	1.309	-0.092	1.248	1.133	1.672	1.672	
-0.092	0.866								
74 N	0.440	0.143	0.879	0.576	0.774	0.508	0.662	0.879	
0.143	0.569								
75 V	1.653	0.109	1.234	1.076	1.084	0.991	0.219	1.653	
0.109	0.910								
76 D	0.711	0.564	1.178	0.966	1.084	0.996	0.469	1.178	
0.469	0.853								
77 A	1.438	-0.180	1.627	0.845	1.458	1.594	-0.146	1.627	
-0.180	0.948								
78 D	1.129	-0.587	1.571	0.430	1.422	1.572	0.187	1.572	
-0.587	0.818								
79 F	0.781	-1.450	1.608	0.124	1.440	1.576	0.034	1.608	
-1.450	0.587								
80 E	0.029	-1.600	1.589	-0.430	1.358	1.106	0.375	1.589	
-1.600	0.347								
81 P	-0.610	-1.320	1.449	-0.929	1.339	1.108	1.706	1.706	
-1.320	0.392								
82 L	-1.748	-1.320	1.038	-1.576	1.002	0.621	2.037	2.037	

-1.748 0.008
83 Y -0.755 -0.540 1.253 -1.900 1.203 0.637 1.946 1.946
-1.900 0.263
84 I -1.116 0.698 1.169 -1.798 1.112 0.056 2.192 2.192
-1.798 0.330
85 I -0.755 1.836 1.253 -1.422 1.203 0.637 1.946 1.946
-1.422 0.671
86 S 0.187 3.016 1.786 -0.878 1.832 1.226 1.576 3.016
-0.878 1.249
87 P 0.572 2.651 1.963 -0.846 2.069 1.831 1.243 2.651
-0.846 1.355
88 E 1.489 2.196 2.253 -1.026 2.242 1.850 1.081 2.253
-1.026 1.441
89 K 2.324 2.477 2.589 -1.168 2.415 1.868 0.800 2.589
-1.168 1.615
90 R 1.679 2.221 2.318 -1.050 2.251 1.849 1.229 2.318
-1.050 1.499
91 S 1.957 1.203 2.225 -0.501 2.132 1.850 1.169 2.225
-0.501 1.434
92 T 1.957 1.161 2.225 -0.160 2.132 1.850 1.169 2.225
-0.160 1.476
93 V 1.015 1.297 1.692 -0.201 1.504 1.261 1.539 1.692
-0.201 1.158
94 S 1.015 1.189 1.692 -0.626 1.504 1.261 1.539 1.692
-0.626 1.082
95 E 0.964 0.129 1.533 -1.275 1.303 1.241 1.379 1.533
-1.275 0.753
96 L 0.054 0.385 1.253 -1.893 1.157 1.227 1.773 1.773
-1.893 0.565
97 R -0.294 1.129 1.290 -2.202 1.175 1.230 1.620 1.620
-2.202 0.564
98 G -0.344 0.219 1.589 -2.469 1.658 1.805 1.525 1.805
-2.469 0.569
99 L -0.205 0.131 1.533 -2.164 1.613 1.694 1.542 1.694
-2.164 0.592
100L 0.142 0.910 1.496 -1.826 1.595 1.690 1.696 1.696
-1.826 0.815
101K 0.509 0.910 1.337 -0.996 1.440 1.555 1.688 1.688
-0.996 0.920
102D 0.642 -0.328 1.674 -0.409 1.850 2.154 1.661 2.154
-0.409 1.035
103V 0.642 -1.071 1.674 -0.042 1.850 2.154 1.661 2.154
-1.071 0.981
104D 1.103 -0.975 2.010 -0.271 2.078 2.168 1.558 2.168
-0.975 1.096
105E 0.161 -1.023 1.477 -0.781 1.449 1.579 1.928 1.928
-1.023 0.684
106L -0.338 -1.059 1.206 -1.503 1.130 1.090 0.927 1.206
-1.503 0.208
107Y 0.225 -0.228 1.524 -1.695 1.294 1.108 0.379 1.524
-1.695 0.372
108L 0.225 0.718 1.524 -1.530 1.294 1.108 0.379 1.524
-1.530 0.531
109A 0.092 1.736 1.188 -0.962 0.884 0.509 0.406 1.736
-0.962 0.550
110T 1.306 2.311 1.543 -0.063 1.194 0.992 -0.038 2.311
-0.063 1.035
111D 1.691 2.447 1.720 0.378 1.431 1.598 -0.371 2.447
-0.371 1.271

112G	2.766	2.483	2.132	0.448	1.786	2.192	-0.832	2.766
-0.832	1.568							
113D	2.994	1.856	2.122	-0.090	1.741	2.192	0.178	2.994
-0.090	1.570							
114R	3.158	0.992	2.253	-0.847	1.950	2.771	0.111	3.158
-0.847	1.484							
115E	2.659	0.179	1.982	-1.625	1.631	2.283	-0.890	2.659
-1.625	0.888							
116G	1.793	-0.899	1.851	-2.038	1.658	2.284	-0.569	2.284
-2.038	0.583							
117E	1.293	-1.436	1.580	-2.402	1.339	1.795	-1.570	1.795
-2.402	0.086							
118A	0.395	-2.215	1.169	-2.548	0.884	1.196	-1.547	1.196
-2.548	-0.381							
119I	0.035	-2.420	1.001	-2.209	0.692	1.216	-1.253	1.216
-2.420	-0.420							
120A	-0.907	-1.520	0.926	-1.728	0.747	1.222	-0.818	1.222
-1.728	-0.297							
121W	-1.982	-1.029	0.515	-0.971	0.392	0.628	-0.357	0.628
-1.982	-0.401							
122H	-1.622	-0.731	0.842	-0.688	0.756	1.227	0.627	1.227
-1.622	0.059							
123L	-0.787	0.011	1.178	-0.756	0.929	1.245	0.346	1.245
-0.787	0.309							
124L	-1.501	0.574	1.094	-1.288	0.938	1.251	1.791	1.791
-1.501	0.408							
125E	-0.509	1.591	1.524	-1.570	1.558	1.820	1.834	1.834
-1.570	0.893							
126T	-0.509	0.692	1.608	-1.727	1.658	1.219	1.786	1.786
-1.727	0.675							
127L	0.338	0.560	2.122	-1.622	2.123	1.838	1.350	2.123
-1.622	0.959							
128K	0.414	0.668	2.066	-1.651	2.096	1.835	1.237	2.096
-1.651	0.952							
129P	0.054	0.668	1.982	-1.626	2.005	1.254	1.483	2.005
-1.626	0.831							
130R	-0.509	1.123	1.664	-1.744	1.841	1.236	2.031	2.031
-1.744	0.806							
131I	0.433	0.195	2.197	-1.744	2.470	1.825	1.661	2.470
-1.744	1.005							
132P	0.338	0.423	2.178	-1.783	2.306	1.855	1.595	2.306
-1.783	0.988							
133V	-0.060	-0.110	1.926	-2.062	2.078	1.853	1.320	2.078
-2.062	0.706							
134K	-0.559	0.077	1.375	-2.387	1.595	1.230	1.910	1.910
-2.387	0.463							
135R	-0.635	-0.180	1.449	-2.530	1.567	1.233	1.839	1.839
-2.530	0.392							
136M	-0.635	-1.318	1.365	-2.120	1.467	1.834	1.887	1.887
-2.120	0.354							
137V	0.092	-0.713	1.814	-1.280	1.841	2.432	1.272	2.432
-1.280	0.779							
138F	-0.774	-0.042	1.225	-0.428	1.185	1.839	1.528	1.839
-0.774	0.648							
139H	-0.711	0.491	0.991	-0.100	0.866	1.234	1.570	1.570
-0.711	0.620							
140E	0.048	0.401	1.328	-0.465	1.185	1.816	1.599	1.816
-0.465	0.844							
141I	0.414	-0.498	1.692	-0.946	1.467	1.834	1.230	1.834

-0.946 0.742
142T 1.129 0.640 1.758 -1.219 1.513 1.830 -0.031 1.830
-1.219 0.803
143E 0.490 0.149 1.459 -1.367 1.321 1.211 0.023 1.459
-1.367 0.470
144P 0.263 -0.426 1.561 -1.491 1.431 1.237 0.049 1.561
-1.491 0.375
145A 0.901 -0.785 1.702 -1.840 1.449 1.235 -1.283 1.702
-1.840 0.197
146I 0.705 -0.210 1.505 -2.365 1.294 1.215 -2.334 1.505
-2.365 -0.027
147R 0.345 0.205 1.178 -2.536 0.929 0.615 -3.318 1.178
-3.318 -0.369
148A 0.705 -0.250 1.262 -2.558 1.020 1.196 -3.564 1.262
-3.564 -0.313
149A 0.705 0.564 1.421 -1.982 1.194 1.816 -2.287 1.816
-2.287 0.204
150A 1.344 1.103 1.804 -1.184 1.485 1.833 -2.388 1.833
-2.388 0.571
151E 1.344 0.898 1.804 -0.312 1.485 1.833 -2.388 1.833
-2.388 0.666
152H 1.843 0.862 2.075 0.484 1.804 2.322 -1.387 2.322
-1.387 1.143
153P 1.129 0.447 1.991 0.634 1.813 2.327 0.058 2.327
0.058 1.200
154R 1.628 0.628 2.262 0.611 2.132 2.816 1.059 2.816
0.611 1.591
155D 0.629 -0.390 1.795 0.281 1.750 2.218 1.407 2.218
-0.390 1.099
156L 1.129 -1.025 1.907 0.203 1.895 2.087 1.131 2.087
-1.025 1.047
157D 0.414 -0.282 1.580 -0.018 1.631 2.074 1.346 2.074
-0.282 0.964
158I -0.085 -0.821 1.029 -0.083 1.148 1.451 1.935 1.935
-0.821 0.653
159D -0.085 -0.005 1.029 -0.348 1.148 1.451 1.935 1.935
-0.348 0.732
160L 0.629 0.031 1.113 -0.381 1.139 1.445 0.490 1.445
-0.381 0.638
161V 0.376 0.726 1.169 -0.449 1.194 0.999 0.662 1.194
-0.449 0.668
162D 1.375 1.635 1.636 -0.377 1.576 1.597 0.314 1.636
-0.377 1.108
163A 1.072 1.910 1.561 -0.530 1.412 1.128 0.364 1.910
-0.530 0.988
164Q 1.919 1.585 2.075 -0.826 1.877 1.747 -0.072 2.075
-0.826 1.187
165E 2.418 0.890 2.627 -1.147 2.360 2.370 -0.661 2.627
-1.147 1.265
166T 1.280 0.854 2.216 -1.755 2.023 1.883 -0.331 2.216
-1.755 0.882
167R 0.566 1.177 2.132 -2.176 2.032 1.888 1.114 2.132
-2.176 0.962
168R 0.819 0.159 2.075 -2.356 1.977 2.335 0.942 2.335
-2.356 0.850
169I 0.591 -1.061 2.178 -2.179 2.087 2.360 0.968 2.360
-2.179 0.706
170L -0.319 -0.110 1.898 -1.744 1.941 2.345 1.362 2.345
-1.744 0.768

171D	-0.705	-0.312	1.720	-1.343	1.704	1.740	1.695	1.740
-1.343	0.643							
172R	-0.610	-0.276	1.281	-1.293	1.185	1.115	1.696	1.696
-1.293	0.443							
173L	-0.224	-1.186	1.674	-1.445	1.440	1.133	1.706	1.706
-1.445	0.443							
174Y	0.850	-0.126	2.085	-1.550	1.795	1.727	1.245	2.085
-1.550	0.861							
175G	-0.016	0.640	1.692	-1.700	1.467	1.240	1.843	1.843
-1.700	0.738							
176Y	0.130	-0.084	1.412	-1.470	1.148	0.635	2.003	2.003
-1.470	0.539							
177E	0.844	0.119	1.739	-1.125	1.412	0.649	1.788	1.788
-1.125	0.775							
178V	0.730	-0.959	1.365	-0.685	1.166	0.631	2.045	2.045
-0.959	0.613							
179S	-0.212	-0.032	1.290	-0.351	1.221	0.636	2.480	2.480
-0.351	0.719							
180P	-0.724	-0.056	1.057	-0.501	1.002	0.642	2.170	2.170
-0.724	0.513							
181V	-0.857	-0.510	1.178	-1.115	1.276	0.637	2.261	2.261
-1.115	0.410							
182L	-0.262	-0.414	1.748	-1.833	1.923	1.230	1.738	1.923
-1.833	0.590							
183W	-0.907	0.149	1.477	-2.398	1.759	1.212	2.166	2.166
-2.398	0.494							
184K	-0.907	1.483	1.234	-2.593	1.485	1.193	0.936	1.485
-2.593	0.405							
185K	-0.540	0.447	1.599	-2.352	1.768	1.210	0.568	1.768
-2.352	0.386							
186V	0.402	0.471	2.132	-2.050	2.397	1.800	0.198	2.397
-2.050	0.764							
187A	0.452	0.568	2.029	-1.715	2.388	1.780	0.610	2.388
-1.715	0.873							
188P	0.503	1.195	1.730	-1.349	1.905	1.205	0.705	1.905
-1.349	0.842							
189K	0.275	1.650	1.281	-1.162	1.267	0.610	-0.370	1.650
-1.162	0.507							
190L	0.869	0.722	1.393	-0.984	1.230	0.609	-0.958	1.393
-0.984	0.412							
191S	1.002	1.417	1.823	-0.978	1.704	1.234	0.051	1.823
-0.978	0.893							
192A	0.636	1.417	1.459	-1.242	1.422	1.216	0.420	1.459
-1.242	0.761							
193G	0.655	1.321	1.337	-1.546	1.157	0.664	0.518	1.337
-1.546	0.587							
194R	1.647	0.694	1.571	-1.488	1.303	0.679	0.243	1.647
-1.488	0.664							
195V	1.002	0.371	1.300	-1.284	1.139	0.660	0.672	1.300
-1.284	0.551							
196Q	1.002	1.281	1.300	-0.761	1.139	0.660	0.672	1.300
-0.761	0.756							
197S	0.971	0.465	1.505	-0.516	1.339	0.680	0.712	1.505
-0.516	0.737							
198V	0.971	-0.715	1.505	-0.694	1.339	0.680	0.712	1.505
-0.715	0.543							
199A	0.699	-0.715	1.487	-1.179	1.330	0.680	0.445	1.487
-1.179	0.393							
200T	-0.186	-0.715	1.019	-1.793	0.938	0.640	0.603	1.019

-1.793 0.072
201R -0.831 -0.392 0.748 -2.417 0.774 0.621 1.032 1.032
-2.417 -0.066
202I -0.465 -0.631 0.870 -2.803 0.784 0.620 -0.566 0.870
-2.803 -0.313
203I -0.332 0.507 1.300 -2.942 1.257 1.244 0.443 1.300
-2.942 0.211
204V -0.167 1.371 1.431 -2.893 1.467 1.824 0.376 1.824
-2.893 0.487
205A -0.167 2.281 1.431 -2.724 1.467 1.824 0.376 2.281
-2.724 0.641
206R 0.971 2.166 1.842 -2.317 1.804 2.311 0.045 2.311
-2.317 0.975
207E 1.742 1.353 2.412 -1.954 2.296 2.934 -0.277 2.934
-1.954 1.215
208R 1.710 0.604 2.524 -1.548 2.351 2.950 -0.921 2.950
-1.548 1.096
209D 1.710 0.604 2.524 -1.434 2.351 2.950 -0.921 2.950
-1.434 1.112
210R 0.863 0.920 2.029 -1.525 1.832 2.329 -0.669 2.329
-1.525 0.825
211M 0.636 0.107 2.132 -1.866 1.941 2.354 -0.644 2.354
-1.866 0.666
212A 0.781 0.221 1.851 -1.660 1.622 1.750 -0.483 1.851
-1.660 0.583
213F 0.281 -0.186 1.580 -1.455 1.303 1.261 -1.484 1.580
-1.484 0.186
214R 0.149 -0.514 1.150 -0.984 0.829 0.636 -2.494 1.150
-2.494 -0.176
215S 0.294 -0.789 1.412 -0.846 1.020 0.638 -2.106 1.412
-2.106 -0.054
216A -0.471 -1.969 1.431 -1.027 1.039 0.663 -1.074 1.431
-1.969 -0.201
217A 0.743 -2.173 1.767 -1.141 1.403 1.148 -1.334 1.767
-2.173 0.059
218Y -0.028 -2.173 1.197 -1.138 0.911 0.525 -1.012 1.197
-2.173 -0.245
219W -1.021 -0.935 0.963 -1.103 0.765 0.511 -0.736 0.963
-1.103 -0.222
220D -1.021 -0.637 0.963 -1.185 0.765 0.511 -0.736 0.963
-1.185 -0.191
221I -0.793 -0.637 1.412 -1.538 1.403 1.105 0.339 1.412
-1.538 0.185
222L -1.255 -0.312 1.075 -2.088 1.175 1.091 0.442 1.175
-2.088 0.018
223A 0.010 0.748 1.328 -2.050 1.476 1.555 0.410 1.555
-2.050 0.497
224K -0.490 0.652 1.057 -1.900 1.157 1.066 -0.591 1.157
-1.900 0.136
225L 0.427 0.676 1.346 -1.023 1.330 1.084 -0.753 1.346
-1.023 0.441
226D 0.775 1.419 1.309 -0.432 1.312 1.080 -0.599 1.419
-0.599 0.695
227A 1.053 1.239 1.459 0.151 1.467 1.101 0.571 1.467
0.151 1.006
228S 1.325 1.778 1.281 0.504 1.148 0.995 0.497 1.778
0.497 1.075
229V 2.039 0.922 1.608 0.972 1.412 1.008 0.282 2.039
0.282 1.178

230S	2.039	1.018	1.608	1.409	1.412	1.008	0.282	2.039
0.282	1.254							
231D	2.039	0.521	1.608	1.770	1.412	1.008	0.282	2.039
0.282	1.235							
232P	1.761	0.341	1.459	1.496	1.257	0.988	-0.888	1.761
-0.888	0.916							
233D	2.128	0.473	1.823	0.948	1.540	1.006	-1.257	2.128
-1.257	0.952							
234A	1.849	-0.240	1.917	0.243	1.658	1.005	-1.197	1.917
-1.197	0.748							
235A	1.546	0.616	1.842	-0.128	1.494	0.536	-1.147	1.842
-1.147	0.680							
236P	0.832	0.616	1.533	0.002	1.175	0.521	-1.116	1.533
-1.116	0.509							
237P	0.610	1.070	1.412	0.322	1.011	0.052	-0.947	1.412
-0.947	0.504							
238T	0.610	0.507	1.412	0.522	1.011	0.052	-0.947	1.412
-0.947	0.453							
239F	0.743	0.507	1.842	0.396	1.485	0.677	0.062	1.842
0.062	0.816							
240S	0.029	0.682	1.515	-0.201	1.221	0.663	0.277	1.515
-0.201	0.598							
241A	0.225	-0.270	1.468	-0.860	1.103	0.664	0.098	1.468
-0.860	0.347							
242R	0.029	-0.270	1.272	-1.472	0.948	0.644	-0.953	1.272
-1.472	0.028							
243L	0.376	-0.456	1.216	-1.693	0.984	0.641	-0.615	1.216
-1.693	0.065							
244T	0.098	0.562	1.066	-1.798	0.829	0.621	-1.785	1.066
-1.798	-0.058							
245A	0.326	0.884	1.057	-1.759	0.784	0.621	-0.775	1.057
-1.759	0.163							
246V	0.326	0.788	1.057	-1.905	0.784	0.621	-0.775	1.057
-1.905	0.128							
247A	1.173	0.884	1.571	-2.082	1.248	1.241	-1.210	1.571
-2.082	0.403							
248G	0.610	1.375	1.253	-2.315	1.084	1.222	-0.662	1.375
-2.315	0.367							
249R	0.610	1.375	1.253	-2.430	1.084	1.222	-0.662	1.375
-2.430	0.350							
250R	1.173	1.375	1.571	-2.349	1.248	1.241	-1.210	1.571
-2.349	0.436							
251V	1.401	1.101	1.561	-2.102	1.203	1.241	-0.200	1.561
-2.102	0.601							
252A	1.306	1.022	2.001	-1.803	1.722	1.865	-0.201	2.001
-1.803	0.845							
253T	1.672	1.561	1.842	-1.321	1.567	1.730	-0.209	1.842
-1.321	0.977							
254G	0.825	1.926	1.346	-0.918	1.048	1.109	0.043	1.926
-0.918	0.769							
255R	1.691	1.095	1.739	-0.235	1.376	1.597	-0.555	1.739
-0.555	0.958							
256D	1.970	0.908	1.889	0.589	1.531	1.617	0.615	1.970
0.589	1.303							
257F	1.059	0.860	1.608	1.158	1.385	1.602	1.009	1.608
0.860	1.240							
258D	1.059	0.830	1.608	1.226	1.385	1.602	1.009	1.608
0.830	1.246							
259S	1.122	1.105	1.375	0.816	1.066	0.997	1.051	1.375

0.816 1.076
260L -0.092 1.080 1.019 -0.112 0.756 0.514 1.495 1.495
-0.112 0.666
261G 0.756 1.912 1.515 -0.851 1.276 1.134 1.243 1.912
-0.851 0.998
262T 0.484 1.824 1.692 -1.496 1.595 1.240 1.317 1.824
-1.496 0.951
263L 0.433 1.908 1.533 -1.953 1.394 1.220 1.157 1.908
-1.953 0.813
264R 1.647 2.016 1.889 -1.897 1.704 1.703 0.713 2.016
-1.897 1.111
265K 1.780 0.878 2.225 -1.640 2.114 2.303 0.687 2.303
-1.640 1.192
266G 1.217 -0.050 1.907 -1.169 1.950 2.285 1.235 2.285
-1.169 1.054
267D 1.293 -0.881 1.851 -0.994 1.923 2.281 1.121 2.281
-0.994 0.942
268E 0.794 -0.881 1.300 -1.271 1.440 1.658 1.711 1.711
-1.271 0.678
269V -0.148 -0.881 0.767 -1.931 0.811 1.069 2.081 2.081
-1.931 0.252
270I 0.123 -0.158 1.047 -2.088 1.175 1.558 2.072 2.072
-2.088 0.533
271V -0.016 1.022 1.103 -2.008 1.221 1.668 2.054 2.054
-2.008 0.721
272L -0.148 1.119 0.767 -1.358 0.811 1.069 2.081 2.081
-1.358 0.620
273D 0.496 1.814 1.038 -0.763 0.975 1.087 1.652 1.814
-0.763 0.900
274E 1.135 1.275 1.178 -0.450 0.993 1.085 0.320 1.275
-0.450 0.791
275G 1.698 0.495 1.496 -0.316 1.157 1.104 -0.228 1.698
-0.316 0.772
276S 2.412 -0.132 1.580 -0.331 1.148 1.098 -1.673 2.412
-1.673 0.586
277A 1.198 -0.987 1.225 -0.639 0.838 0.615 -1.229 1.225
-1.229 0.146
278T 0.838 -0.360 0.898 -1.038 0.474 0.015 -2.213 0.898
-2.213 -0.198
279A 0.610 -1.055 0.907 -1.509 0.519 0.015 -3.223 0.907
-3.223 -0.534
280L 0.560 -0.516 0.748 -1.971 0.319 -0.005 -3.383 0.748
-3.383 -0.607
281A -0.155 0.315 0.664 -2.104 0.328 0.001 -1.938 0.664
-2.104 -0.413
282A 0.149 0.806 0.739 -1.872 0.492 0.470 -1.987 0.806
-1.987 -0.172
283G 0.376 1.297 0.730 -1.469 0.446 0.470 -0.977 1.297
-1.469 0.125
284L 1.287 0.465 1.010 -0.821 0.592 0.484 -1.371 1.287
-1.371 0.235
285D 1.533 1.161 1.337 -0.351 0.966 0.527 -0.198 1.533
-0.351 0.711
286G 0.819 0.525 1.253 -0.188 0.975 0.532 1.247 1.253
-0.188 0.738
287T 0.787 -0.102 1.459 -0.331 1.175 0.552 1.288 1.459
-0.331 0.690
288Q 1.135 0.263 1.421 -0.617 1.157 0.548 1.442 1.442
-0.617 0.764

289L	0.636	-0.228	1.150	-1.046	0.838	0.059	0.440	1.150	
-1.046	0.264								
290T	0.686	0.552	1.309	-1.062	1.039	0.079	0.600	1.309	
-1.062	0.457								
291V	0.490	0.636	1.113	-1.052	0.884	0.059	-0.451	1.113	
-1.052	0.240								
292A	0.604	1.563	1.113	-0.934	0.875	0.616	-0.640	1.563	
-0.934	0.457								
293S	1.679	1.922	1.524	-0.935	1.230	1.211	-1.102	1.922	
-1.102	0.790								
294A	1.710	0.660	1.776	-1.296	1.713	1.785	-1.077	1.785	
-1.296	0.753								
295E	2.077	0.660	2.141	-1.610	1.996	1.803	-1.446	2.141	
-1.610	0.803								
296E	1.824	0.898	2.393	-1.703	2.233	1.822	-0.104	2.393	
-1.703	1.052								
297K	1.546	1.137	2.244	-1.593	2.078	1.802	-1.274	2.244	
-1.593	0.848								
298P	1.679	0.664	2.674	-1.367	2.552	2.427	-0.265	2.674	
-1.367	1.195								
299Y	1.451	-0.102	2.776	-1.447	2.661	2.452	-0.239	2.776	
-1.447	1.079								
300A	1.091	0.664	2.692	-1.660	2.570	1.871	0.007	2.692	
-1.660	1.033								
301R	0.610	1.022	2.496	-1.762	2.169	1.296	0.274	2.496	
-1.762	0.872								
302R	0.610	0.035	2.496	-1.476	2.169	1.296	0.274	2.496	
-1.476	0.772								
303P	0.863	-0.893	2.487	-0.842	2.205	1.295	0.162	2.487	
-0.893	0.754								
304Y	0.149	-0.761	2.421	-0.168	2.160	1.300	1.423	2.421	
-0.761	0.932								
305P	-0.382	0.501	1.982	0.058	1.731	0.692	1.369	1.982	
-0.382	0.850								
306P	-0.319	0.634	1.748	0.012	1.412	0.087	1.410	1.748	
-0.319	0.712								
307F	-0.041	0.071	1.655	-0.273	1.294	0.089	1.350	1.655	
-0.273	0.592								
308M	0.408	0.736	1.599	-0.296	1.212	0.089	1.059	1.599	
-0.296	0.687								
309T	-0.307	1.341	1.272	-0.196	0.948	0.076	1.274	1.341	
-0.307	0.630								
310S	-0.060	1.425	1.356	-0.012	1.048	0.099	1.217	1.425	
-0.060	0.725								
311T	0.901	0.570	1.748	-0.117	1.467	0.137	1.130	1.748	
-0.117	0.834								
312L	1.660	0.934	2.085	-0.411	1.786	0.720	1.158	2.085	
-0.411	1.133								
313Q	1.464	1.952	1.889	-0.828	1.631	0.700	0.108	1.952	
-0.828	0.988								
314Q	1.464	2.293	1.889	-0.970	1.631	0.700	0.108	2.293	
-0.970	1.016								
315E	1.401	1.597	2.122	-1.053	1.950	1.304	0.066	2.122	
-1.053	1.055								
316A	2.343	1.836	2.655	-0.994	2.579	1.894	-0.304	2.655	
-0.994	1.430								
317S	1.382	1.662	2.244	-1.194	2.214	1.857	-0.032	2.244	
-1.194	1.162								
318R	1.268	1.662	2.346	-1.600	2.315	2.439	-0.197	2.439	

-1.600 1.176
319K 0.193 0.848 1.954 -1.975 1.905 1.843 0.081 1.954
-1.975 0.693
320L 0.471 0.592 2.103 -1.879 2.060 1.864 1.251 2.103
-1.879 0.923
321R 0.193 1.609 1.954 -1.538 1.905 1.843 0.081 1.954
-1.538 0.864
322F 0.421 1.287 1.851 -0.906 1.795 1.818 0.056 1.851
-0.906 0.903
323S 0.326 1.347 1.832 -0.748 1.631 1.848 -0.010 1.848
-0.748 0.890
324A 1.236 1.347 2.113 -0.966 1.777 1.863 -0.405 2.113
-0.966 0.995
325E 0.705 1.022 1.674 -1.497 1.349 1.255 -0.459 1.674
-1.497 0.578
326R 1.698 0.447 1.889 -1.578 1.549 1.271 -0.550 1.889
-1.578 0.675
327T 0.781 0.125 1.599 -1.620 1.376 1.253 -0.388 1.599
-1.620 0.446
328M 0.781 0.447 1.599 -1.347 1.376 1.253 -0.388 1.599
-1.347 0.531
329S 0.667 0.357 1.599 -1.315 1.385 0.696 -0.199 1.599
-1.315 0.456
330I 0.667 -0.905 1.599 -1.417 1.385 0.696 -0.199 1.599
-1.417 0.261
331A -0.243 -0.005 1.318 -1.717 1.239 0.681 0.195 1.318
-1.717 0.210
332Q -0.098 0.604 1.580 -1.776 1.431 0.684 0.583 1.580
-1.776 0.430
333R -0.016 0.740 1.758 -2.007 1.640 1.263 0.397 1.758
-2.007 0.539
334L 0.933 -0.480 2.197 -1.532 1.968 1.302 -0.038 2.197
-1.532 0.621
335Y 1.160 -0.601 2.188 -0.972 1.923 1.302 0.972 2.188
-0.972 0.853
336E 0.661 0.297 2.113 -0.183 1.786 1.279 1.141 2.113
-0.183 1.013
337N -0.111 -0.685 1.543 0.117 1.294 0.656 1.464 1.543
-0.685 0.611
338G 0.800 -1.408 1.823 -0.048 1.440 0.670 1.069 1.823
-1.408 0.621
339Y 0.800 -1.222 1.823 -0.750 1.440 0.670 1.069 1.823
-1.222 0.547
340I 0.041 -0.324 1.487 -1.239 1.121 0.088 1.040 1.487
-1.239 0.316
341T -0.136 0.540 1.617 -1.758 1.285 0.672 1.153 1.617
-1.758 0.482
342Y -0.167 0.904 1.823 -1.816 1.485 0.692 1.193 1.823
-1.816 0.588
343M 0.585 1.802 1.842 -1.678 1.567 1.162 0.852 1.842
-1.678 0.876
344R 1.502 2.407 2.132 -0.981 1.741 1.180 0.690 2.407
-0.981 1.239
345T 1.502 1.389 2.132 -0.012 1.741 1.180 0.690 2.132
-0.012 1.232
346D 1.951 1.754 2.075 0.915 1.658 1.181 0.399 2.075
0.399 1.419
347S 1.634 1.790 2.001 1.161 1.622 1.169 0.889 2.001
0.889 1.467

348T	1.780	1.790	1.720	0.926	1.303	0.564	1.050	1.790
0.564	1.305							
349T	1.944	1.299	1.851	0.266	1.513	1.144	0.983	1.944
0.266	1.286							
350L	1.723	0.483	1.730	0.009	1.349	0.675	1.151	1.730
0.009	1.017							
351S	1.445	1.297	1.580	-0.159	1.194	0.655	-0.018	1.580
-0.159	0.856							
352E	0.610	0.441	1.244	-0.243	1.020	0.637	0.262	1.244
-0.243	0.567							
353S	0.724	-0.134	1.346	-0.238	1.175	0.657	0.109	1.346
-0.238	0.520							
354A	1.438	-0.176	1.431	-0.246	1.166	0.652	-1.336	1.438
-1.336	0.419							
355I	1.160	0.315	1.281	-0.218	1.011	0.632	-2.506	1.281
-2.506	0.239							
356N	0.933	1.131	1.384	-0.228	1.121	0.657	-2.481	1.384
-2.481	0.359							
357A	0.850	0.521	1.431	-0.551	1.121	0.657	-2.600	1.431
-2.600	0.204							
358A	1.097	1.335	1.758	-0.993	1.494	0.699	-1.427	1.758
-1.427	0.566							
359R	1.736	1.826	1.898	-1.147	1.513	0.697	-2.758	1.898
-2.758	0.538							
360T	1.559	0.808	2.029	-1.375	1.677	1.282	-2.646	2.029
-2.646	0.476							
361Q	1.805	-0.090	2.356	-1.257	2.050	1.324	-1.473	2.356
-1.473	0.674							
362A	1.091	0.047	2.272	-1.445	2.060	1.329	-0.028	2.272
-1.445	0.761							
363R	0.705	0.586	2.094	-1.555	1.823	0.724	0.305	2.094
-1.555	0.669							
364Q	0.737	0.347	1.889	-1.664	1.622	0.704	0.265	1.889
-1.664	0.557							
365L	0.990	-0.550	1.832	-1.348	1.567	1.151	0.093	1.832
-1.348	0.533							
366Y	1.350	-0.442	2.160	-1.024	1.932	1.750	1.076	2.160
-1.024	0.972							
367G	0.964	-0.036	1.982	-0.562	1.695	1.145	1.409	1.982
-0.562	0.943							
368D	0.351	-0.304	1.533	-0.533	1.312	1.104	1.835	1.835
-0.533	0.757							
369E	1.065	-0.843	1.617	-0.727	1.303	1.099	0.390	1.617
-0.843	0.558							
370Y	1.318	-1.059	1.608	-1.094	1.339	1.098	0.277	1.608
-1.094	0.498							
371V	1.091	0.161	1.617	-1.292	1.385	1.098	-0.733	1.617
-1.292	0.475							
372A	0.591	0.748	1.589	-1.212	1.339	0.628	-0.504	1.589
-1.212	0.454							
373P	0.364	0.341	1.692	-0.989	1.449	0.653	-0.479	1.692
-0.989	0.433							
374A	0.863	0.473	1.767	-0.809	1.586	0.676	-0.647	1.767
-0.809	0.559							
375P	0.977	1.287	2.141	-0.854	1.832	0.694	-0.904	2.141
-0.904	0.739							
376R	1.173	1.760	2.337	-0.813	1.987	0.714	0.147	2.337
-0.813	1.044							
377Q	1.306	0.850	2.524	-0.966	2.187	1.320	-0.074	2.524

-0.966 1.021
378Y 1.533 1.191 2.973 -1.013 2.825 1.914 1.001 2.973
-1.013 1.489
379T 1.167 2.207 2.608 -1.390 2.543 1.897 1.370 2.608
-1.390 1.486
380R 1.261 1.716 2.627 -1.777 2.707 1.867 1.436 2.707
-1.777 1.405
381K 1.325 1.393 2.599 -1.745 2.643 1.865 1.160 2.643
-1.745 1.320
382V 1.578 1.137 2.346 -1.367 2.406 1.846 -0.183 2.406
-1.367 1.109
383K 1.628 1.233 2.477 -0.546 2.625 1.868 -0.060 2.625
-0.546 1.318
384N 1.856 0.491 2.374 -0.036 2.515 1.843 -0.086 2.515
-0.086 1.280
385A 1.628 0.457 1.926 -0.067 1.877 1.249 -1.161 1.926
-1.161 0.844
386Q 1.995 0.457 2.206 -0.318 2.060 1.867 -1.482 2.206
-1.482 0.969
387E 2.128 -0.358 2.085 -0.443 1.786 1.872 -1.573 2.128
-1.573 0.785
388A 1.818 -0.120 1.786 -0.437 1.476 1.831 -2.470 1.831
-2.470 0.555
389H 1.179 0.239 1.646 -0.413 1.458 1.833 -1.139 1.833
-1.139 0.686
390E 1.065 0.149 1.748 -0.919 1.558 2.415 -1.303 2.415
-1.303 0.673
391A 0.705 0.201 1.664 -1.580 1.467 1.835 -1.057 1.835
-1.580 0.462
392I 0.705 0.776 1.664 -1.966 1.467 1.835 -1.057 1.835
-1.966 0.489
393R 0.933 1.591 1.496 -2.020 1.248 1.215 -1.324 1.591
-2.020 0.449
394P 0.933 0.604 1.496 -1.705 1.248 1.215 -1.324 1.496
-1.705 0.352
395A 1.129 0.245 1.692 -1.469 1.403 1.235 -0.273 1.692
-1.469 0.566
396G 1.053 0.736 1.767 -1.337 1.376 1.237 -0.343 1.767
-1.337 0.641
397E 0.920 0.467 1.337 -1.177 0.902 0.613 -1.353 1.337
-1.353 0.244
398T 1.116 0.431 1.290 -0.989 0.784 0.613 -1.532 1.290
-1.532 0.245
399F 1.116 -0.060 1.533 -0.672 1.057 0.632 -0.302 1.533
-0.672 0.472
400A 1.388 0.019 1.814 -0.240 1.422 1.121 -0.311 1.814
-0.311 0.745
401T 1.028 0.832 1.487 0.151 1.057 0.522 -1.295 1.487
-1.295 0.540
402P 0.465 1.155 1.169 0.383 0.893 0.503 -0.747 1.169
-0.747 0.546
403D 1.312 1.371 1.664 0.076 1.412 1.124 -0.999 1.664
-0.999 0.852
404A 1.445 0.628 2.094 -0.652 1.886 1.749 0.010 2.094
-0.652 1.023
405V 1.609 1.167 2.225 -1.624 2.096 2.328 -0.057 2.328
-1.624 1.106
406R 0.895 1.890 1.898 -2.304 1.832 2.315 0.158 2.315
-2.304 0.955

407R	0.895	1.435	1.898	-2.354	1.832	2.315	0.158	2.315
-2.354	0.883							
408E	1.122	1.231	1.889	-1.909	1.786	2.315	1.169	2.315
-1.909	1.086							
409L	1.489	0.331	2.253	-1.088	2.069	2.332	0.800	2.332
-1.088	1.169							
410D	1.666	1.074	2.122	-0.036	1.905	1.748	0.688	2.122
-0.036	1.310							
411G	0.895	1.074	1.552	0.664	1.412	1.125	1.010	1.552
0.664	1.105							
412P	1.034	0.273	1.496	1.262	1.367	1.014	1.028	1.496
0.273	1.068							
413N	2.248	0.728	1.851	1.573	1.677	1.498	0.584	2.248
0.584	1.451							
414I	1.034	-0.086	1.515	1.581	1.312	1.013	0.844	1.581
-0.086	1.031							
415D	0.939	-0.168	1.954	1.407	1.832	1.638	0.843	1.954
-0.168	1.206							
416D	0.225	-0.132	1.627	0.924	1.567	1.624	1.058	1.627
-0.132	0.985							
417F	-0.338	-0.875	1.580	-0.071	1.494	1.603	1.503	1.603
-0.875	0.699							
418R	0.661	-1.025	2.047	-0.911	1.877	2.201	1.155	2.201
-1.025	0.858							
419L	-0.553	-2.342	1.692	-1.706	1.567	1.717	1.599	1.717
-2.342	0.282							
420Y	-1.691	-1.646	1.281	-2.178	1.230	1.230	1.930	1.930
-2.178	0.022							
421E	-1.742	-0.426	1.365	-2.425	1.294	1.251	1.701	1.701
-2.425	0.145							
422L	-1.628	-0.510	1.262	-2.515	1.194	0.669	1.865	1.865
-2.515	0.048							
423I	-0.781	-0.402	1.776	-2.522	1.658	1.288	1.429	1.776
-2.522	0.350							
424W	-0.332	-0.078	1.720	-2.222	1.576	1.289	1.138	1.720
-2.222	0.442							
425Q	-1.059	1.281	1.272	-1.865	1.203	0.691	1.753	1.753
-1.865	0.468							
426R	-0.344	1.281	1.356	-1.582	1.194	0.685	0.308	1.356
-1.582	0.414							
427T	0.572	0.353	1.646	-1.282	1.367	0.704	0.146	1.646
-1.282	0.501							
428V	1.584	-0.138	1.954	-0.978	1.722	0.721	0.287	1.954
-0.978	0.736							
429A	0.939	0.497	1.617	-0.773	1.394	0.696	0.068	1.617
-0.773	0.634							
430S	0.806	0.497	1.188	-0.644	0.920	0.071	-0.941	1.188
-0.941	0.271							
431Q	1.110	0.455	1.262	-0.695	1.084	0.540	-0.991	1.262
-0.991	0.395							
432M	1.476	0.592	1.384	-0.869	1.093	0.538	-2.590	1.476
-2.590	0.232							
433A	1.609	0.592	1.814	-0.875	1.567	1.163	-1.580	1.814
-1.580	0.613							
434D	1.559	1.082	1.655	-0.980	1.367	1.143	-1.740	1.655
-1.740	0.584							
435A	0.914	0.339	1.318	-1.290	1.039	1.118	-1.958	1.318
-1.958	0.211							
436R	1.508	1.195	1.524	-1.637	1.148	1.121	-1.862	1.524

-1.862 0.428
437G 0.794 0.177 1.440 -1.959 1.157 1.126 -0.417 1.440
-1.959 0.331
438M 0.572 0.363 1.318 -1.816 0.993 0.657 -0.249 1.318
-1.816 0.263
439T -0.142 0.153 1.234 -1.432 1.002 0.663 1.197 1.234
-1.432 0.382
440L -0.142 0.153 1.234 -1.037 1.002 0.663 1.197 1.234
-1.037 0.439
441S -1.008 0.984 1.103 -1.188 1.030 0.664 1.518 1.518
-1.188 0.443
442L -0.414 0.015 1.309 -1.442 1.139 0.667 1.614 1.614
-1.442 0.413
443R -0.382 1.074 1.103 -1.933 0.938 0.647 1.573 1.573
-1.933 0.432
444I -0.066 0.888 1.178 -2.047 0.975 0.659 1.083 1.178
-2.047 0.382
445T -0.066 1.303 1.178 -1.864 0.975 0.659 1.083 1.303
-1.864 0.467
446G 0.876 1.303 1.253 -1.487 0.920 0.654 0.649 1.303
-1.487 0.595
447M 0.743 1.251 0.982 -0.738 0.619 0.649 0.917 1.251
-0.738 0.632
448S 1.628 1.269 1.449 0.016 1.011 0.689 0.758 1.628
0.016 0.974
449G 1.793 0.317 1.580 0.628 1.221 1.269 0.691 1.793
0.317 1.071
450H 1.198 -0.484 1.468 0.664 1.257 1.270 1.280 1.468
-0.484 0.950
451Q 1.230 0.281 1.356 0.166 1.203 1.255 1.924 1.924
0.166 1.059
452E 0.237 -0.210 1.141 -0.769 1.002 1.239 2.015 2.015
-0.769 0.665
453V 0.288 -0.294 1.300 -1.069 1.203 1.259 2.175 2.175
-1.069 0.694
454V 0.288 0.429 1.141 -1.084 1.030 0.639 0.897 1.141
-1.084 0.477
455F 0.237 1.339 1.010 -0.541 0.811 0.617 0.775 1.339
-0.541 0.607
456S 0.104 2.004 0.674 -0.239 0.401 0.017 0.801 2.004
-0.239 0.537
457A 0.604 0.944 1.225 -0.378 0.884 0.640 0.212 1.225
-0.378 0.590
458T 1.167 1.435 1.543 -0.735 1.048 0.659 -0.336 1.543
-0.735 0.683
459G 1.167 0.770 1.524 -1.172 1.103 0.660 -0.153 1.524
-1.172 0.557
460R 1.084 0.501 1.571 -1.381 1.103 0.660 -0.272 1.571
-1.381 0.467
461T 0.370 0.315 1.505 -1.245 1.057 0.664 0.990 1.505
-1.245 0.522
462L 0.174 -0.350 1.552 -0.904 1.175 0.663 1.169 1.552
-0.904 0.497
463T 0.174 -0.350 1.552 -0.560 1.175 0.663 1.169 1.552
-0.560 0.546
464F -0.673 -0.009 1.057 -0.197 0.656 0.043 1.421 1.421
-0.673 0.328
465P -1.584 0.165 0.776 -0.307 0.510 0.028 1.815 1.815
-1.584 0.201

466G	-0.642	-0.601	1.309	-0.592	1.139	0.617	1.445	1.445	-0.642	0.382
467F	-0.838	-1.324	1.113	-1.182	0.984	0.597	0.394	1.113	-1.324	-0.036
468L	-0.376	-0.574	1.431	-1.645	1.267	0.612	0.475	1.431	-1.645	0.170
469K	-0.743	0.121	1.066	-1.987	0.984	0.595	0.844	1.066	-1.987	0.126
470A	-0.610	-0.807	1.403	-2.021	1.394	1.195	0.817	1.403	-2.021	0.196
471Y	0.300	-0.268	1.664	-1.912	1.595	1.210	0.607	1.664	-1.912	0.457
472V	0.648	0.714	1.627	-1.756	1.576	1.206	0.761	1.627	-1.756	0.682
473E	0.920	0.606	1.449	-1.320	1.257	1.101	0.687	1.449	-1.320	0.671
474T	1.280	-0.066	1.776	-0.958	1.622	1.700	1.671	1.776	-0.958	1.004
475V	0.819	0.071	1.440	-0.632	1.394	1.686	1.773	1.773	-0.632	0.936
476D	0.819	0.794	1.440	-0.697	1.394	1.686	1.773	1.773	-0.697	1.030
477E	0.686	0.830	1.103	-1.042	0.984	1.087	1.800	1.800	-1.042	0.778
478L	0.718	0.255	0.898	-1.601	0.784	1.067	1.760	1.760	-1.601	0.554
479V	1.445	0.998	1.346	-1.853	1.157	1.665	1.145	1.665	-1.853	0.843
480G	0.945	1.633	1.075	-2.044	0.838	1.176	0.143	1.633	-2.044	0.538
481G	1.084	1.006	1.019	-1.712	0.793	1.065	0.161	1.084	-1.712	0.488
482E	2.298	0.954	1.375	-1.090	1.103	1.549	-0.283	2.298	-1.090	0.844
483A	2.665	1.193	1.496	-0.314	1.112	1.547	-1.882	2.665	-1.882	0.831
484D	2.798	2.006	1.832	0.295	1.522	2.147	-1.909	2.798	-1.909	1.242
485D	2.703	1.263	2.272	0.221	2.041	2.771	-1.910	2.771	-1.910	1.337
486A	2.475	1.082	2.374	-0.552	2.151	2.797	-1.884	2.797	-1.884	1.206
487E	1.761	1.173	2.290	-1.559	2.160	2.802	-0.439	2.802	-1.559	1.170
488R	1.261	0.393	2.262	-2.167	2.114	2.332	-0.210	2.332	-2.167	0.855
489R	0.762	0.071	2.150	-1.858	1.968	2.463	0.066	2.463	-1.858	0.803
490L	0.048	-0.384	2.066	-1.000	1.977	2.468	1.511	2.468	-1.000	0.955
491P	-0.117	0.447	1.935	0.027	1.768	1.889	1.578	1.935	-0.117	1.075
492H	-0.250	0.580	1.748	0.603	1.567	1.283	1.799	1.799	-0.250	1.047
493L	-0.155	1.303	1.309	0.584	1.048	0.658	1.800	1.800	-0.155	0.935
494T	0.806	1.303	1.720	0.260	1.412	0.695	1.528	1.720	0.260	1.104
495P	0.939	1.351	1.907	-0.207	1.613	1.301	1.308	1.907		

-0.207 1.173
496G 0.225 0.668 1.664 -0.791 1.449 0.687 1.475 1.664
-0.791 0.768
497Q 1.438 -0.056 2.019 -0.958 1.759 1.170 1.031 2.019
-0.958 0.915
498R 0.604 0.029 1.683 -1.216 1.586 1.152 1.312 1.683
-1.216 0.736
499L 0.237 -0.989 1.318 -1.228 1.303 1.135 1.681 1.681
-1.228 0.494
500D 0.370 -0.294 1.655 -1.291 1.713 1.734 1.654 1.734
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501I -0.591 -0.474 1.244 -1.597 1.349 1.697 1.926 1.926
-1.597 0.508
502V -0.528 0.389 1.010 -1.879 1.030 1.092 1.968 1.968
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503E 0.187 1.113 1.337 -1.783 1.294 1.106 1.753 1.753
-1.783 0.715
504L 0.187 0.628 1.337 -1.248 1.294 1.106 1.753 1.753
-1.248 0.722
505T 1.053 0.832 1.468 -0.353 1.267 1.104 1.431 1.468
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506P 1.420 0.832 1.748 0.678 1.449 1.723 1.110 1.748
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508G 1.970 0.902 1.702 1.353 1.230 1.137 -0.268 1.970
-0.268 1.147
509H 2.083 0.634 1.804 1.382 1.385 1.158 -0.422 2.083
-0.422 1.146
510A 2.083 0.544 1.804 1.496 1.385 1.158 -0.422 2.083
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512N 1.356 0.459 1.786 1.886 1.385 0.688 -1.203 1.886
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513P 1.489 0.341 2.057 1.324 1.686 0.693 -1.472 2.057
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514P 1.236 0.558 2.309 0.422 1.923 0.712 -0.129 2.309
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515A 1.236 0.199 2.309 -0.530 1.923 0.712 -0.129 2.309
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517Y 1.287 0.037 2.094 -1.416 1.704 1.252 -1.273 2.094
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518T 1.565 0.347 2.001 -1.242 1.586 1.253 -1.333 2.001
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519E 0.850 0.688 1.917 -1.087 1.595 1.259 0.112 1.917
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520A 0.351 0.113 1.365 -0.933 1.112 0.636 0.702 1.365
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521S 0.832 -0.092 1.561 -1.051 1.513 1.211 0.435 1.561
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522L 0.636 -0.372 1.365 -1.386 1.358 1.191 -0.616 1.365
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523V -0.439 0.407 0.954 -1.860 1.002 0.597 -0.155 1.002
-1.860 0.072
524K -0.079 0.299 1.281 -2.200 1.367 1.196 0.829 1.367
-2.200 0.385

525A	0.003	0.095	1.459	-2.483	1.576	1.776	0.643	1.776
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526L	0.003	-0.230	1.459	-2.484	1.576	1.776	0.643	1.776
-2.484	0.392							
527E	0.598	0.602	1.571	-2.459	1.540	1.774	0.054	1.774
-2.459	0.526							
528E	-0.269	0.840	0.982	-2.480	0.884	1.182	0.311	1.182
-2.480	0.207							
529L	-0.041	0.624	0.973	-2.460	0.838	1.182	1.321	1.321
-2.460	0.348							
530G	0.806	1.684	1.487	-2.509	1.303	1.801	0.886	1.801
-2.509	0.780							
531I	0.446	1.547	1.403	-2.331	1.212	1.220	1.132	1.547
-2.331	0.661							
532G	0.364	1.465	1.225	-1.852	1.002	0.641	1.318	1.465
-1.852	0.595							
533R	1.274	1.694	1.505	-1.026	1.148	0.655	0.924	1.694
-1.026	0.882							
534P	0.794	1.736	1.767	-0.217	1.431	0.675	1.256	1.767
-0.217	1.063							
535S	1.710	1.052	2.057	0.511	1.604	0.693	1.094	2.057
0.511	1.246							
536T	1.761	-0.128	2.216	0.852	1.804	0.713	1.253	2.216
-0.128	1.210							
537Y	0.990	0.213	1.646	0.867	1.312	0.090	1.576	1.646
0.090	0.956							
538S	0.351	1.111	1.262	0.505	1.020	0.073	1.677	1.677
0.073	0.857							
539S	0.300	-0.070	1.561	-0.307	1.504	0.647	1.583	1.583
-0.307	0.746							
540I	0.300	-0.434	1.561	-1.204	1.504	0.647	1.583	1.583
-1.204	0.565							
541I	-0.085	0.429	1.169	-1.994	1.248	0.630	1.572	1.572
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542K	-0.117	1.567	1.346	-2.181	1.467	0.652	1.576	1.576
-2.181	0.616							
543T	0.104	1.363	1.468	-1.800	1.631	1.121	1.407	1.631
-1.800	0.756							
544I	0.876	0.465	2.038	-1.181	2.123	1.744	1.084	2.123
-1.181	1.021							
545Q	1.742	0.694	2.169	-0.677	2.096	1.742	0.763	2.169
-0.677	1.218							
546D	1.261	0.293	1.973	-0.514	1.695	1.167	1.030	1.973
-0.514	0.986							
547R	0.699	0.586	1.655	-0.805	1.531	1.149	1.578	1.655
-0.805	0.913							
548G	1.337	0.604	1.954	-0.778	1.722	1.767	1.524	1.954
-0.778	1.161							
549Y	1.318	0.604	2.075	-0.705	1.987	2.319	1.425	2.319
-0.705	1.289							
550V	1.046	1.866	2.253	-0.450	2.306	2.425	1.499	2.425
-0.450	1.564							
551H	1.141	1.962	1.814	-0.353	1.786	1.800	1.501	1.962
-0.353	1.379							
552K	1.192	1.668	1.973	-0.472	1.987	1.820	1.660	1.987
-0.472	1.404							
553K	1.445	0.740	1.720	-0.829	1.750	1.801	0.318	1.801
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554G	1.097	0.267	1.758	-0.837	1.768	1.804	0.164	1.804

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557L         0.553   -0.959    0.973   -1.035    0.738    0.036    0.735    0.973
-1.035    0.149
558V        -0.439   -0.755    1.001   -0.788    0.802    0.061    0.757    1.001
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559P        -1.084   -0.833    0.730   -0.507    0.638    0.043    1.186    1.186
-1.084    0.025
560S        -1.084   -1.192    0.730   -0.456    0.638    0.043    1.186    1.186
-1.192   -0.019
561W        -1.084   -2.143    0.748   -0.767    0.583    0.041    1.002    1.002
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562V        -0.717   -1.150    0.870   -1.246    0.592    0.040   -0.597    0.870
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563A        -1.084   -0.426    0.505   -1.517    0.310    0.022   -0.228    0.505
-1.517   -0.345
564F        -1.166   -0.631    0.552   -1.549    0.310    0.022   -0.347    0.552
-1.549   -0.401
565A        -0.174   -0.661    0.524   -1.413    0.246   -0.003   -0.369    0.524
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566V        -0.521   -0.086    0.561   -1.382    0.264    0.001   -0.523    0.561
-1.382   -0.241
567T        -1.236    0.501    0.477   -1.454    0.273    0.006    0.923    0.923
-1.454   -0.073
568G        -0.161    0.101    0.870   -1.718    0.683    0.602    0.645    0.870
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569L         0.085   -0.701    1.197   -1.907    1.057    0.644    1.819    1.819
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570L         0.452    0.131    1.477   -1.584    1.239    1.262    1.497    1.497
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571E        -0.458    1.149    1.216   -0.903    1.039    1.247    1.708    1.708
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572Q        -0.458    0.369    1.216    0.059    1.039    1.247    1.708    1.708
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573H         0.389   -0.218    1.730    0.511    1.504    1.866    1.272    1.866
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574F         0.389    0.231    1.730    0.168    1.504    1.866    1.272    1.866
0.168    1.023
575G        -0.338   -0.001    1.281   -0.778    1.130    1.268    1.887    1.887
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576R        -0.085   -0.090    1.225   -1.372    1.075    1.714    1.714    1.714
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577L        -0.338   -1.077    1.318   -1.552    1.139    1.114    1.779    1.779
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578V         0.876   -0.382    1.655   -0.762    1.504    1.599    1.519    1.655
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579D        -0.066   -0.286    1.599    0.073    1.504    1.603    1.770    1.770
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580Y        -0.003   -0.825    1.365    0.774    1.185    0.998    1.812    1.812
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581D         0.711   -0.532    1.449    0.816    1.175    0.993    0.366    1.449
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582F         1.078   -0.496    1.571    0.457    1.185    0.991   -1.232    1.571
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583T         0.180    0.217    1.290   -0.486    0.911    0.519   -1.279    1.290
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585A	0.794	0.097	1.365	-1.815	1.039	1.100	-1.637	1.365
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586M	1.868	0.636	1.758	-1.821	1.449	1.695	-1.914	1.868
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587E	0.958	1.325	1.477	-1.470	1.303	1.680	-1.520	1.680
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588D	1.457	0.425	1.748	-0.895	1.622	2.169	-0.519	2.169
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589E	1.818	-0.114	2.075	-0.653	1.987	2.769	0.465	2.769
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590L	1.578	-0.689	1.945	-0.666	1.923	2.754	0.842	2.754
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591D	1.217	0.143	1.617	-0.926	1.558	2.154	-0.142	2.154
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592E	0.718	0.213	1.346	-1.507	1.239	1.665	-1.143	1.665
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593I	0.585	0.213	1.010	-1.961	0.829	1.066	-1.117	1.066
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594A	1.609	1.351	1.393	-1.713	1.130	1.101	-1.665	1.609
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595A	1.470	2.164	1.449	-1.254	1.175	1.211	-1.682	2.164
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596G	1.242	2.655	1.552	-0.419	1.285	1.236	-1.657	2.655
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597N	2.014	2.637	2.122	-0.184	1.777	1.859	-1.979	2.637
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598E	2.210	1.525	2.318	-0.514	1.932	1.879	-0.928	2.318
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599R	2.520	0.746	2.617	-0.761	2.242	1.920	-0.031	2.617
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600R	1.527	0.542	2.646	-0.577	2.306	1.945	-0.009	2.646
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601T	0.503	0.337	2.262	-0.153	2.005	1.910	0.539	2.262
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602N	0.452	-0.328	2.234	0.593	1.950	1.351	0.452	2.234
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603W	0.629	-1.344	2.103	1.176	1.786	0.767	0.340	2.103
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604L	-0.218	-1.015	1.608	1.744	1.267	0.146	0.592	1.744
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605N	-0.667	-0.184	1.664	2.341	1.349	0.146	0.883	2.341
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606N	-1.691	-0.166	1.300	2.329	0.993	0.109	1.247	2.329
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607F	-0.698	-0.236	1.272	1.695	0.929	0.084	1.225	1.695
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608Y	0.244	0.029	1.346	0.630	0.875	0.079	0.791	1.346
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609F	0.433	1.062	1.318	-0.176	0.884	0.527	0.895	1.318
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610G	0.123	1.141	1.178	-0.118	0.747	1.106	1.275	1.275
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611G	1.065	0.872	1.234	0.508	0.747	1.102	1.024	1.234
0.508	0.936							
612D	0.952	0.784	0.860	1.113	0.501	1.084	1.281	1.281
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613H	1.666	1.101	1.169	1.196	0.820	1.099	1.250	1.666

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640E 2.064 1.177 2.001 -0.818 1.813 1.745 -0.229 2.064
-0.818 1.108
641V 0.926 0.397 1.589 -0.064 1.476 1.258 0.102 1.589
-0.064 0.812
642N 1.154 0.319 2.038 0.581 2.114 1.853 1.177 2.114
0.319 1.319

643S	0.307	0.249	1.524	0.315	1.649	1.233	1.613	1.649	0.249	0.984
644I	-0.768	-0.068	1.132	-0.595	1.239	0.638	1.890	1.890	-0.768	0.496
645K	0.098	0.748	1.524	-1.138	1.567	1.125	1.293	1.567	-1.138	0.745
646L	0.288	0.007	1.496	-0.916	1.576	1.574	1.397	1.576	-0.916	0.774
647F	0.206	0.838	1.543	0.051	1.576	1.574	1.277	1.576	0.051	1.009
648D	0.844	1.826	1.842	1.393	1.768	2.192	1.223	2.192	0.844	1.584
649D	0.844	1.646	1.384	2.005	1.084	1.597	1.158	2.005	0.844	1.388
650T	1.691	0.782	1.898	1.957	1.549	2.216	0.723	2.216	0.723	1.545
651H	2.406	-0.116	2.206	1.331	1.868	2.231	0.691	2.406	-0.116	1.517
652G	1.268	-0.302	1.795	0.274	1.531	1.744	1.022	1.795	-0.302	1.047
653R	0.515	-0.116	1.776	-0.661	1.449	1.274	1.363	1.776	-0.661	0.800
654P	-0.047	-1.025	1.459	-1.282	1.285	1.256	1.911	1.911	-1.282	0.508
655I	0.085	-0.757	1.730	-1.775	1.586	1.261	1.643	1.730	-1.775	0.539
656Y	-0.509	0.399	1.617	-2.009	1.622	1.262	2.231	2.231	-2.009	0.659
657V	-0.414	1.415	1.178	-2.118	1.103	0.638	2.232	2.232	-2.118	0.576
658R	-0.186	2.138	1.384	-2.314	1.467	1.213	2.077	2.138	-2.314	0.826
659V	0.762	1.684	1.823	-1.788	1.795	1.252	1.643	1.823	-1.788	1.024
660G	1.242	1.373	1.561	-1.211	1.513	1.233	1.311	1.561	-1.211	1.003
661K	1.609	0.542	1.926	-0.218	1.795	1.250	0.942	1.926	-0.218	1.121
662N	1.224	0.285	1.748	0.410	1.558	0.645	1.275	1.748	0.285	1.021
663G	0.876	0.489	1.786	0.499	1.576	0.649	1.121	1.786	0.489	1.000
664P	1.009	-0.342	2.122	-0.103	1.987	1.248	1.095	2.122	-0.342	1.002
665Y	0.914	-0.797	2.103	-0.858	1.823	1.278	1.029	2.103	-0.858	0.785
666L	-0.111	-0.390	1.720	-1.808	1.522	1.243	1.577	1.720	-1.808	0.536
667E	-0.705	0.441	1.608	-2.252	1.558	1.245	2.165	2.165	-2.252	0.580
668R	-0.705	0.405	1.365	-2.528	1.285	1.226	0.935	1.365	-2.528	0.283
669L	-0.224	0.083	1.103	-2.501	1.002	1.206	0.603	1.206	-2.501	0.182
670V	0.990	0.914	1.459	-2.033	1.312	1.690	0.160	1.690	-2.033	0.642
671A	0.825	1.585	1.328	-1.375	1.103	1.110	0.227	1.585	-1.375	0.686
672G	0.920	1.944	0.889	-0.600	0.583	0.486	0.228	1.944		

-0.600 0.636
673D 1.995 1.808 1.300 -0.171 0.938 1.080 -0.234 1.995
-0.234 0.959
674T 2.362 1.627 1.664 -0.109 1.221 1.097 -0.602 2.362
-0.602 1.037
675G 2.558 1.627 1.860 -0.370 1.376 1.117 0.449 2.558
-0.370 1.231
676E 2.330 1.814 2.113 -0.382 1.695 1.136 0.668 2.330
-0.382 1.339
677P 2.077 1.239 2.169 -0.239 1.750 0.690 0.840 2.169
-0.239 1.218
678T 2.014 1.489 2.403 -0.035 2.069 1.294 0.799 2.403
-0.035 1.433
679P 1.786 0.794 2.412 -0.178 2.114 1.294 -0.212 2.412
-0.212 1.144
680Q 1.736 1.291 2.384 -0.228 2.060 0.735 -0.298 2.384
-0.298 1.097
681R 1.021 1.339 2.057 -0.405 1.795 0.722 -0.083 2.057
-0.405 0.921
682A 1.103 1.381 2.010 0.081 1.795 0.722 0.036 2.010
0.036 1.018
683N 1.603 1.056 2.038 0.700 1.841 1.192 -0.193 2.038
-0.193 1.177
684L 1.634 0.938 1.860 1.396 1.622 1.170 -0.197 1.860
-0.197 1.203
685S 0.863 1.501 1.290 1.574 1.130 0.547 0.126 1.574
0.126 1.004
686D 1.059 1.185 1.487 1.522 1.285 0.567 1.177 1.522
0.567 1.183
687S 0.749 1.221 1.431 0.827 1.248 0.545 1.510 1.510
0.545 1.076
688I 1.963 0.161 1.786 0.565 1.558 1.029 1.066 1.963
0.161 1.161
689T 2.045 0.976 1.963 0.280 1.768 1.608 0.880 2.045
0.280 1.360
690P 0.832 0.281 1.608 0.273 1.458 1.125 1.324 1.608
0.273 0.986
691D 0.749 0.413 1.655 0.056 1.458 1.124 1.205 1.655
0.056 0.952
692E 0.673 -0.222 1.711 -0.398 1.485 1.128 1.318 1.711
-0.398 0.814
693L 0.724 -0.797 1.842 -0.944 1.704 1.150 1.440 1.842
-0.944 0.731
694T 0.357 -0.017 1.477 -1.278 1.422 1.133 1.809 1.809
-1.278 0.700
695L -0.142 0.067 1.206 -1.441 1.103 0.644 0.808 1.206
-1.441 0.321
696Q -0.142 0.067 1.206 -1.545 1.103 0.644 0.808 1.206
-1.545 0.306
697V 0.933 -0.599 1.617 -1.739 1.458 1.238 0.347 1.617
-1.739 0.465
698A 0.022 -0.502 1.337 -2.087 1.312 1.224 0.741 1.337
-2.087 0.292
699E 0.022 -0.011 1.356 -2.133 1.257 1.223 0.557 1.356
-2.133 0.324
700E -0.224 -0.228 1.029 -2.137 0.884 1.180 -0.616 1.180
-2.137 -0.016
701L 0.338 -0.312 1.346 -1.789 1.048 1.199 -1.164 1.346
-1.789 0.095

702F	0.338	0.383	1.589	-1.321	1.321	1.218	0.066	1.589
-1.321	0.514							
703A	0.225	1.185	1.589	-0.780	1.330	0.660	0.256	1.589
-0.780	0.638							
704T	0.111	1.998	1.589	-0.315	1.339	0.103	0.445	1.998
-0.315	0.753							
705P	1.053	1.998	1.664	-0.060	1.285	0.098	0.010	1.998
-0.060	0.864							
706Q	1.900	1.435	2.160	-0.259	1.804	0.718	-0.242	2.160
-0.259	1.074							
707Q	2.096	1.571	2.356	-0.574	1.959	0.738	0.809	2.356
-0.574	1.279							
708G	1.186	0.876	2.075	-1.086	1.813	0.724	1.203	2.075
-1.086	0.970							
709R	1.413	0.788	1.823	-1.414	1.494	0.705	0.984	1.823
-1.414	0.828							
710T	0.452	0.333	1.412	-1.636	1.130	0.668	1.256	1.412
-1.636	0.516							
711L	0.705	0.417	1.356	-1.490	1.075	1.114	1.083	1.356
-1.490	0.609							
712G	0.477	1.113	1.608	-1.145	1.394	1.133	1.303	1.608
-1.145	0.840							
713L	0.705	1.113	1.505	-0.568	1.285	1.108	1.277	1.505
-0.568	0.918							
714D	0.705	1.407	1.505	-0.121	1.285	1.108	1.277	1.505
-0.121	1.024							
715P	1.647	1.443	1.580	0.001	1.230	1.103	0.843	1.647
0.001	1.121							
716E	1.420	0.760	1.748	0.065	1.449	1.723	1.110	1.748
0.065	1.182							
717T	2.494	0.089	2.160	0.064	1.804	2.317	0.649	2.494
0.064	1.368							
718G	1.356	-0.402	1.748	0.067	1.467	1.830	0.979	1.830
-0.402	1.006							
719H	0.990	-0.216	1.384	-0.211	1.185	1.812	1.348	1.812
-0.216	0.899							
720E	0.629	0.269	1.057	-0.813	0.820	1.213	0.364	1.213
-0.813	0.506							
721I	0.566	0.321	1.290	-1.744	1.139	1.817	0.323	1.817
-1.744	0.530							
722V	0.699	1.459	1.627	-2.266	1.549	2.417	0.296	2.417
-2.266	0.826							
723A	0.926	1.381	1.459	-2.574	1.330	1.797	0.029	1.797
-2.574	0.621							
724R	0.699	2.008	1.561	-2.501	1.440	1.822	0.054	2.008
-2.501	0.726							
725E	0.623	1.553	1.636	-2.270	1.412	1.825	-0.016	1.825
-2.270	0.680							
726G	1.217	0.572	1.748	-2.062	1.376	1.823	-0.605	1.823
-2.062	0.581							
727R	1.217	-0.152	1.991	-1.620	1.649	1.842	0.625	1.991
-1.620	0.793							
728F	0.832	-0.474	1.814	-1.182	1.412	1.237	0.958	1.814
-1.182	0.657							
729G	0.104	0.275	1.365	-0.832	1.039	0.639	1.573	1.573
-0.832	0.595							
730P	0.073	-0.677	1.571	-0.687	1.239	0.659	1.614	1.614
-0.687	0.542							
731Y	0.300	-1.240	1.468	-0.770	1.130	0.633	1.588	1.588

-1.240 0.444
732V 0.376 -0.474 1.393 -1.151 1.157 0.631 1.659 1.659
-1.151 0.513
733T -0.566 0.197 1.318 -1.574 1.212 0.636 2.094 2.094
-1.574 0.474
734E -0.566 0.065 1.318 -1.908 1.212 0.636 2.094 2.094
-1.908 0.407
735I 0.048 -0.510 1.393 -2.067 1.339 1.217 1.735 1.735
-2.067 0.451
736L 0.414 -0.186 1.758 -1.714 1.622 1.234 1.366 1.758
-1.714 0.642
737P 0.218 0.558 1.561 -1.370 1.467 1.214 0.316 1.561
-1.370 0.566
738E -0.142 0.199 1.234 -1.036 1.103 0.615 -0.668 1.234
-1.036 0.186
739P 0.996 -0.376 1.646 -0.780 1.440 1.102 -0.999 1.646
-0.999 0.433
740A 1.710 -0.735 1.730 -0.687 1.431 1.096 -2.444 1.730
-2.444 0.300
741A 1.710 -0.735 1.487 -0.647 1.157 1.077 -3.674 1.710
-3.674 0.054
742D 1.350 -0.735 1.160 -0.664 0.793 0.478 -4.658 1.350
-4.658 -0.325
743A 1.350 -0.783 0.917 -1.025 0.519 0.459 -5.888 1.350
-5.888 -0.636
744A 1.350 -0.156 0.917 -1.511 0.519 0.459 -5.888 1.350
-5.888 -0.616
745A 1.597 -0.252 1.244 -1.763 0.893 0.501 -4.714 1.597
-4.714 -0.356
746A 1.325 0.580 0.963 -1.900 0.528 0.012 -4.705 1.325
-4.705 -0.457
747A 0.958 1.411 0.842 -1.686 0.519 0.014 -3.106 1.411
-3.106 -0.150
748Q 1.186 2.225 1.290 -1.606 1.157 0.608 -2.031 2.225
-2.031 0.404
749G 1.413 2.225 1.739 -1.732 1.795 1.203 -0.956 2.225
-1.732 0.812
750V 1.546 2.429 2.169 -2.067 2.269 1.828 0.053 2.429
-2.067 1.175
751K 1.793 2.525 2.496 -2.260 2.643 1.870 1.227 2.643
-2.260 1.471
752K 1.774 1.694 2.617 -2.370 2.907 2.422 1.128 2.907
-2.370 1.453
753R 1.546 1.489 2.627 -2.210 2.953 2.422 0.118 2.953
-2.210 1.278
754Q 1.913 1.034 2.748 -2.074 2.962 2.421 -1.481 2.962
-2.074 1.075
755K 1.913 1.375 2.290 -1.989 2.278 1.826 -1.546 2.290
-1.989 0.878
756A 1.685 0.902 2.085 -1.850 1.914 1.251 -1.391 2.085
-1.850 0.656
757A 1.780 1.716 2.103 -1.659 2.078 1.221 -1.325 2.103
-1.659 0.845
758G 1.533 2.207 2.019 -1.289 1.977 1.197 -1.268 2.207
-1.289 0.911
759P 1.438 2.207 2.001 -1.049 1.813 1.227 -1.334 2.207
-1.334 0.900
760K 1.634 2.703 2.197 -0.859 1.968 1.247 -0.283 2.703
-0.859 1.230

761P	1.862	1.668	2.188	-0.934	1.923	1.247	0.727	2.188
-0.934	1.240							
762R	1.913	1.105	2.346	-0.746	2.123	1.267	0.887	2.346
-0.746	1.271							
763T	1.198	1.105	2.019	-0.724	1.859	1.254	1.102	2.019
-0.724	1.116							
764G	0.256	1.469	1.487	-0.531	1.230	0.664	1.472	1.487
-0.531	0.864							
765S	0.389	0.728	1.674	-0.845	1.431	1.270	1.251	1.674
-0.845	0.842							
766L	0.534	0.411	1.393	-1.014	1.112	0.665	1.412	1.412
-1.014	0.645							
767L	-0.060	0.411	1.188	-1.444	1.002	0.663	1.316	1.316
-1.444	0.439							
768R	0.212	1.107	1.468	-1.135	1.367	1.152	1.306	1.468
-1.135	0.782							
769S	-0.781	0.784	1.234	-0.938	1.221	1.137	1.582	1.582
-0.938	0.606							
770M	0.180	-0.168	1.646	-0.453	1.586	1.174	1.310	1.646
-0.453	0.753							
771D	1.091	0.437	1.926	-0.341	1.731	1.188	0.916	1.926
-0.341	0.993							
772L	0.591	-0.306	1.375	-0.343	1.248	0.565	1.505	1.505
-0.343	0.662							
773Q	0.509	0.473	1.421	-0.569	1.248	0.565	1.386	1.421
-0.569	0.719							
774T	0.193	0.521	1.346	-0.669	1.212	0.553	1.876	1.876
-0.669	0.719							
775V	0.054	0.031	1.403	-1.037	1.257	0.664	1.859	1.859
-1.037	0.604							
776T	1.268	-0.078	1.758	-1.033	1.567	1.148	1.415	1.758
-1.033	0.864							
777L	1.021	0.245	1.431	-1.053	1.194	1.105	0.242	1.431
-1.053	0.598							
778E	0.111	0.245	1.150	-0.927	1.048	1.091	0.636	1.150
-0.927	0.479							
779D	0.610	-0.534	1.702	-0.924	1.531	1.714	0.046	1.714
-0.924	0.592							
780A	-0.300	-0.218	1.421	-1.304	1.385	1.699	0.440	1.699
-1.304	0.446							
781L	-0.300	-0.422	1.421	-1.889	1.385	1.699	0.440	1.699
-1.889	0.334							
782R	-0.382	0.141	1.244	-2.056	1.175	1.120	0.627	1.244
-2.056	0.267							
783L	-1.596	0.141	0.889	-2.057	0.866	0.636	1.071	1.071
-2.057	-0.007							
784L	-1.596	0.249	1.132	-1.385	1.139	0.655	2.301	2.301
-1.596	0.356							
785S	-0.749	0.357	1.646	-0.961	1.604	1.274	1.865	1.865
-0.961	0.719							
786L	-1.249	0.129	1.094	-0.790	1.121	0.651	2.454	2.454
-1.249	0.487							
787P	-0.901	0.237	1.057	-1.112	1.103	0.647	2.608	2.608
-1.112	0.520							
788R	0.041	0.417	1.132	-1.475	1.048	0.642	2.173	2.173
-1.475	0.568							
789V	-0.604	-0.038	0.860	-1.944	0.884	0.624	2.602	2.602
-1.944	0.341							
790V	0.610	0.059	1.216	-1.713	1.194	1.107	2.158	2.158

-1.713 0.661
791G 0.610 1.010 1.216 -1.276 1.194 1.107 2.158 2.158
-1.276 0.860
792V 0.477 1.010 0.786 -0.543 0.720 0.482 1.149 1.149
-0.543 0.583
793D 1.122 1.682 1.057 0.152 0.884 0.501 0.720 1.682
0.152 0.874
794P 1.717 1.718 1.169 0.399 0.847 0.499 0.132 1.718
0.132 0.926
795A 1.849 1.034 1.505 0.226 1.257 1.099 0.105 1.849
0.105 1.011
796S 2.577 1.525 1.954 -0.245 1.631 1.697 -0.510 2.577
-0.510 1.233
797G 1.438 0.670 1.543 -1.036 1.294 1.210 -0.179 1.543
-1.036 0.706
798E 1.634 0.534 1.496 -1.666 1.175 1.211 -0.358 1.634
-1.666 0.575
799E 1.634 0.568 1.496 -2.020 1.175 1.211 -0.358 1.634
-2.020 0.529
800I 1.603 0.620 1.674 -2.019 1.394 1.233 -0.355 1.674
-2.019 0.593
801T 1.685 1.758 1.982 -1.268 1.750 1.274 -0.468 1.982
-1.268 0.959
802A 1.552 0.860 1.646 -0.393 1.339 0.674 -0.442 1.646
-0.442 0.748
803Q 1.325 1.487 1.748 0.334 1.449 0.699 -0.416 1.748
-0.416 0.947
804N 1.710 1.355 2.141 0.541 1.704 0.717 -0.406 2.141
-0.406 1.109
805G 1.742 0.339 1.935 0.001 1.504 0.697 -0.446 1.935
-0.446 0.825
806R 1.742 -0.492 2.178 -0.616 1.777 0.716 0.784 2.178
-0.616 0.870
807Y 1.242 -0.474 2.103 -0.953 1.640 0.693 0.953 2.103
-0.953 0.744
808G 0.218 0.746 1.720 -1.076 1.339 0.658 1.501 1.720
-1.076 0.730
809P 0.218 0.746 2.178 -1.029 2.023 1.252 1.565 2.178
-1.029 0.993
810Y 0.218 0.996 2.178 -1.304 2.023 1.252 1.565 2.178
-1.304 0.990
811L 0.699 1.942 1.917 -1.817 1.741 1.233 1.234 1.942
-1.817 0.992
812K 0.781 3.002 2.225 -1.728 2.096 1.273 1.120 3.002
-1.728 1.253
813R 1.280 2.984 2.253 -1.029 2.142 1.743 0.891 2.984
-1.029 1.466
814G 1.812 3.026 2.150 0.420 2.060 1.744 0.719 3.026
0.420 1.704
815N 2.659 2.194 2.664 1.579 2.524 2.363 0.283 2.664
0.283 2.038
816D 2.709 1.489 2.365 2.151 2.041 1.789 0.378 2.709
0.378 1.846
817S 1.862 1.441 1.851 1.603 1.576 1.170 0.814 1.862
0.814 1.474
818R 1.268 1.161 1.739 0.725 1.613 1.171 1.402 1.739
0.725 1.297
819S 1.154 0.886 1.636 -0.263 1.458 1.150 1.556 1.636
-0.263 1.082

820L	1.015	0.521	1.692	-0.853	1.504	1.261	1.539	1.692
-0.853	0.954							
821V	1.236	0.401	1.814	-0.979	1.668	1.730	1.370	1.814
-0.979	1.034							
822T	1.350	0.323	1.711	-0.677	1.567	1.148	1.534	1.711
-0.677	0.994							
823E	0.433	0.323	1.421	-0.463	1.394	1.129	1.696	1.696
-0.463	0.848							
824D	0.433	-0.576	1.440	-0.260	1.339	1.128	1.512	1.512
-0.576	0.717							
825Q	0.996	-0.625	1.758	-0.372	1.504	1.147	0.964	1.758
-0.625	0.767							
826I	0.161	-1.320	1.421	-0.832	1.330	1.128	1.245	1.421
-1.320	0.448							
827F	-0.003	-0.456	1.290	-0.999	1.121	0.549	1.312	1.312
-0.999	0.402							
828T	-1.217	0.293	0.935	-1.298	0.811	0.065	1.756	1.756
-1.298	0.192							
829I	-0.964	-0.198	0.879	-1.146	0.756	0.512	1.584	1.584
-1.146	0.203							
830T	0.035	-0.078	1.346	-0.972	1.139	1.110	1.236	1.346
-0.972	0.545							
831L	0.749	0.263	1.412	-0.734	1.185	1.105	-0.025	1.412
-0.734	0.565							
832D	-0.161	0.143	1.132	-0.823	1.039	1.091	0.369	1.132
-0.823	0.398							
833E	0.705	-0.803	1.720	-1.105	1.695	1.684	0.112	1.720
-1.105	0.573							
834A	-0.129	-1.378	1.384	-1.854	1.522	1.666	0.393	1.666
-1.854	0.229							
835L	0.332	-0.803	1.720	-2.281	1.750	1.680	0.290	1.750
-2.281	0.384							
836K	-0.167	-0.240	1.449	-2.640	1.431	1.191	-0.711	1.449
-2.640	0.045							
837I	-0.167	-0.240	1.449	-2.532	1.431	1.191	-0.711	1.449
-2.532	0.060							
838Y	-0.167	0.898	1.692	-2.196	1.704	1.210	0.519	1.704
-2.196	0.523							
839A	0.775	2.118	2.225	-1.866	2.333	1.799	0.149	2.333
-1.866	1.076							
840E	0.680	2.745	2.206	-1.632	2.169	1.829	0.083	2.745
-1.632	1.154							
841P	1.451	2.984	2.776	-1.648	2.661	2.452	-0.239	2.984
-1.648	1.491							
842K	1.932	3.116	2.515	-1.905	2.379	2.432	-0.571	3.116
-1.905	1.414							
843R	2.064	3.140	2.945	-2.255	2.852	3.057	0.438	3.140
-2.255	1.749							
844R	1.951	2.327	2.945	-2.293	2.862	2.500	0.628	2.945
-2.293	1.560							
845G	2.229	2.369	2.851	-1.987	2.743	2.501	0.568	2.851
-1.987	1.610							
846R	2.001	1.742	2.403	-1.379	2.105	1.906	-0.507	2.403
-1.379	1.181							
847Q	2.147	1.287	2.122	-0.549	1.786	1.302	-0.347	2.147
-0.549	1.107							
848S	2.014	1.155	1.692	-0.064	1.312	0.677	-1.356	2.014
-1.356	0.776							
849A	1.786	0.095	1.945	0.221	1.631	0.696	-1.136	1.945

-1.136 0.748
850S 1.653 0.908 1.758 0.256 1.431 0.090 -0.916 1.758
-0.916 0.740
851A 0.692 0.628 1.346 0.140 1.066 0.053 -0.644 1.346
-0.644 0.469
852P 0.547 0.423 1.627 -0.232 1.385 0.658 -0.805 1.627
-0.805 0.515
853P 0.907 0.692 1.954 -0.659 1.750 1.258 0.179 1.954
-0.659 0.869
854L -0.085 0.824 1.720 -1.446 1.604 1.243 0.454 1.720
-1.446 0.616
855R 0.142 1.567 1.711 -1.981 1.558 1.243 1.465 1.711
-1.981 0.815
856E 0.338 1.113 1.664 -2.187 1.440 1.244 1.286 1.664
-2.187 0.700
857L 0.838 0.538 1.692 -1.759 1.485 1.714 1.057 1.714
-1.759 0.795
858G 1.552 1.597 2.019 -0.867 1.750 1.727 0.842 2.019
-0.867 1.232
859T 1.420 1.597 1.589 -0.003 1.276 1.103 -0.168 1.597
-0.168 0.974
860D 1.337 1.938 1.412 0.648 1.066 0.523 0.019 1.938
0.019 0.992
861P 2.279 1.758 1.487 0.699 1.011 0.518 -0.416 2.279
-0.416 1.048
862A 2.279 1.285 1.945 0.345 1.695 1.112 -0.351 2.279
-0.351 1.187
863S 2.083 1.189 1.991 -0.090 1.813 1.111 -0.172 2.083
-0.172 1.132
864G 1.186 0.009 1.711 -0.670 1.540 0.640 -0.218 1.711
-0.670 0.599
865K 0.819 0.213 1.346 -1.130 1.257 0.622 0.150 1.346
-1.130 0.468
866P 0.180 -0.080 1.206 -1.602 1.239 0.624 1.482 1.482
-1.602 0.436
867M 0.130 0.189 1.505 -2.157 1.722 1.199 1.387 1.722
-2.157 0.568
868V 0.402 1.117 1.786 -2.267 2.087 1.688 1.378 2.087
-2.267 0.884
869I 0.402 1.038 1.328 -2.022 1.403 1.093 1.313 1.403
-2.022 0.651
870K 0.534 1.990 1.515 -1.579 1.604 1.699 1.093 1.990
-1.579 0.979
871D 0.218 1.517 1.459 -1.024 1.513 1.686 1.399 1.686
-1.024 0.967
872G 0.813 0.572 1.571 -0.917 1.476 1.684 0.810 1.684
-0.917 0.858
873R 1.451 -0.152 1.954 -0.908 1.768 1.701 0.709 1.954
-0.908 0.932
874F 0.971 -0.474 1.758 -0.864 1.367 1.126 0.976 1.758
-0.864 0.694
875G 0.104 0.239 1.365 -0.832 1.039 0.639 1.573 1.573
-0.832 0.590
876P 0.073 0.239 1.571 -0.687 1.239 0.659 1.614 1.614
-0.687 0.672
877Y 0.440 0.455 1.412 -0.451 1.084 0.523 1.606 1.606
-0.451 0.724
878V 1.382 1.353 1.468 -0.328 1.084 0.519 1.355 1.468
-0.328 0.976

879T 1.514 2.058 1.804 -0.084 1.494 1.118 1.328 2.058
-0.084 1.319
880D 1.710 1.567 1.758 -0.066 1.376 1.119 1.149 1.758
-0.066 1.231
881G 2.273 1.884 1.804 0.106 1.449 1.140 0.704 2.273
0.106 1.337
882E 2.640 1.052 1.926 0.215 1.458 1.139 -0.895 2.640
-0.895 1.076
883T 2.722 1.291 1.879 0.776 1.458 1.139 -0.776 2.722
-0.776 1.213
884N 1.508 1.631 1.524 0.954 1.148 0.655 -0.332 1.631
-0.332 1.013
885A 1.413 1.650 1.963 0.796 1.668 1.280 -0.333 1.963
-0.333 1.205
886S 1.280 2.188 2.085 -0.069 1.941 1.275 -0.242 2.188
-0.242 1.208
887L 1.312 1.872 1.879 -1.019 1.741 1.255 -0.282 1.879
-1.019 0.965
888R 1.502 1.980 1.851 -1.636 1.750 1.704 -0.178 1.980
-1.636 0.996
889K 2.001 1.167 2.122 -1.188 2.069 2.192 0.823 2.192
-1.188 1.312
890G 1.356 1.191 1.851 -0.468 1.905 2.174 1.252 2.174
-0.468 1.323
891D 2.071 0.239 1.935 0.307 1.895 2.169 -0.193 2.169
-0.193 1.203
892D 2.216 0.191 1.655 0.599 1.576 1.564 -0.032 2.216
-0.032 1.110
893V 1.350 0.191 1.066 0.151 0.920 0.971 0.224 1.350
0.151 0.696
894A 1.318 0.862 1.272 -0.279 1.121 0.991 0.265 1.318
-0.279 0.793
895S 1.318 1.676 1.272 -0.464 1.121 0.991 0.265 1.676
-0.464 0.883
896I 1.179 0.820 1.328 -0.415 1.166 1.102 0.247 1.328
-0.415 0.775
897T 1.679 1.145 1.879 -0.277 1.649 1.725 -0.342 1.879
-0.342 1.065
898D 1.679 1.229 1.879 -0.424 1.649 1.725 -0.342 1.879
-0.424 1.056
899E 1.401 0.485 1.730 -1.054 1.494 1.705 -1.512 1.730
-1.512 0.607
900R 2.399 -0.294 2.197 -1.641 1.877 2.303 -1.860 2.399
-1.860 0.712
901A 1.489 -1.107 1.917 -2.132 1.731 2.288 -1.466 2.288
-2.132 0.389
902A 0.275 -0.568 1.561 -2.430 1.422 1.804 -1.022 1.804
-2.430 0.149
903E -0.085 0.245 1.234 -2.445 1.057 1.205 -2.006 1.234
-2.445 -0.113
904L 0.281 0.483 1.075 -2.146 0.902 1.069 -2.014 1.075
-2.146 -0.050
905L 0.414 0.688 1.505 -1.801 1.376 1.694 -1.005 1.694
-1.801 0.410
906A 0.547 1.706 1.935 -1.335 1.850 2.318 0.005 2.318
-1.335 1.004
907D 0.187 2.333 1.608 -1.186 1.485 1.719 -0.979 2.333
-1.186 0.738
908R 1.034 2.152 2.122 -1.450 1.950 2.338 -1.415 2.338

-1.450 0.962
909R 1.976 1.339 2.197 -1.931 1.895 2.333 -1.850 2.333
-1.931 0.851
910A 1.976 1.357 2.440 -2.054 2.169 2.352 -0.620 2.440
-2.054 1.089
911R 1.476 2.170 2.169 -1.999 1.850 1.863 -1.621 2.170
-1.999 0.844
912G 1.571 1.716 2.188 -1.605 2.014 1.833 -1.555 2.188
-1.605 0.880
913P 1.571 1.089 2.188 -1.486 2.014 1.833 -1.555 2.188
-1.555 0.808
914A 1.571 1.543 2.431 -1.516 2.287 1.852 -0.325 2.431
-1.516 1.121
915K 1.438 2.375 2.001 -1.670 1.813 1.227 -1.334 2.375
-1.670 0.836
916R 1.344 1.543 2.440 -1.679 2.333 1.852 -1.335 2.440
-1.679 0.928
917P 1.571 0.730 2.646 -1.757 2.698 2.427 -1.490 2.698
-1.757 0.975
918A 1.571 1.185 2.646 -1.864 2.698 2.427 -1.490 2.698
-1.864 1.025
919R 1.344 2.016 2.197 -2.144 2.060 1.833 -2.565 2.197
-2.565 0.677
920K 1.344 1.107 2.197 -2.351 2.060 1.833 -2.565 2.197
-2.565 0.518
921A 1.571 0.634 2.403 -2.525 2.424 2.408 -2.720 2.424
-2.720 0.599
922A 1.205 0.634 2.281 -2.533 2.415 2.410 -1.121 2.415
-2.533 0.756
923R 1.072 1.465 2.094 -2.355 2.214 1.804 -0.901 2.214
-2.355 0.771
924K 0.844 1.483 1.646 -2.108 1.576 1.210 -1.976 1.646
-2.108 0.382
925V 1.072 0.652 2.094 -1.768 2.214 1.804 -0.901 2.214
-1.768 0.738
926P 1.299 0.748 2.543 -1.625 2.852 2.399 0.175 2.852
-1.625 1.199
927A 1.167 1.221 2.113 -1.735 2.379 1.774 -0.835 2.379
-1.735 0.869
928K 0.939 2.034 1.664 -2.055 1.741 1.180 -1.910 2.034
-2.055 0.513
929K 1.533 1.742 2.234 -2.298 2.388 1.773 -2.434 2.388
-2.434 0.706
930A 1.666 1.165 2.421 -2.487 2.588 2.378 -2.654 2.588
-2.654 0.725
931A 2.166 1.419 2.692 -2.197 2.907 2.867 -1.653 2.907
-2.197 1.172
932K 1.805 1.674 1.786 -1.751 2.588 2.333 -2.728 2.588
-2.728 0.815
933R 1.445 1.097 0.879 -1.021 2.269 1.798 -3.803 2.269
-3.803 0.380
934D 1.312 0.538 0.421 -0.384 2.588 1.858 -3.803 2.588
-3.803 0.361

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

Sequence	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Hydrophilicity	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Flexibility	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Accessibility	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP

	EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Turns	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Exposed Surface	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Polarity	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]
Antigenic Propensity	[1]LADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADF EPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDA QETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAV AGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERT MSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRREL DGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRL PHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQH FGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRP IYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILP EPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDS RSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDE RAAELLADRRARGPAKRPARKAARKVPAKKAAKRD[934]

TOP

Home