```
 BcePred Prediction Server


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

seqname=
Seq=MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSWN
EITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVEVVM
QAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTIIDAFEA
VGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAAPPATDRRRD
GFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIAHEANVALSLQD
FSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDCLTVTGHTMAENLA
AITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVFEGTARVFDGERAALDA
LEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDVLLLTDGRFSGGTTGLCVGH
IAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQQDFSPPPPRYTTGVLSKYVKLVS
SAAVGAVCG

Length=575

GRAPHICAL RESULT

GRAPHICAL RESULT :: SEQ 1 to 60
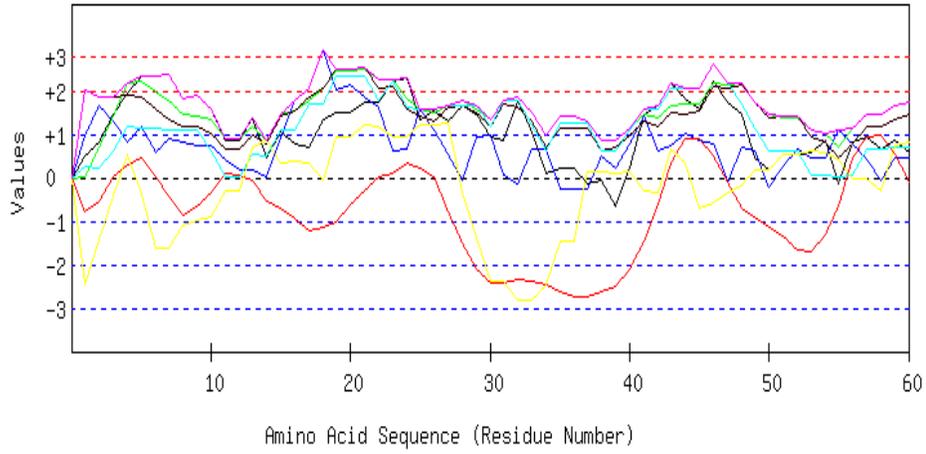
Values

+3
+2
+1
0
-1
-2
-3

10   20   30   40   50   60

Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 61 to 120
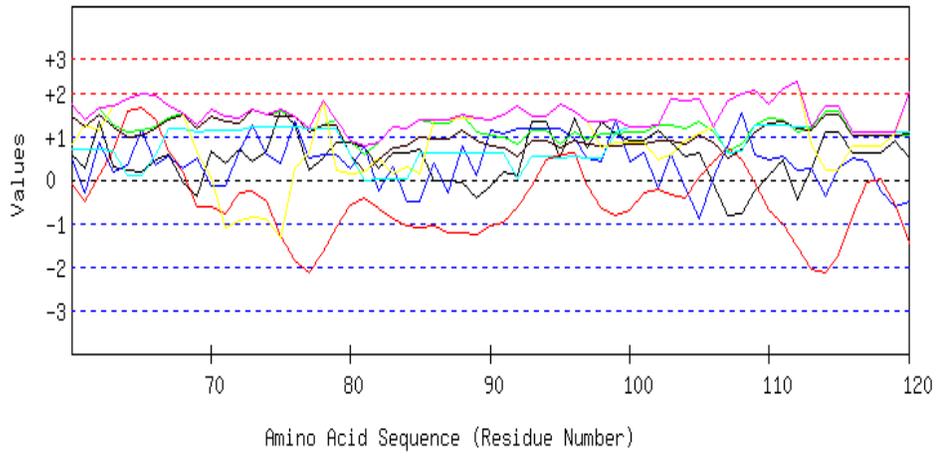
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 121 to 180
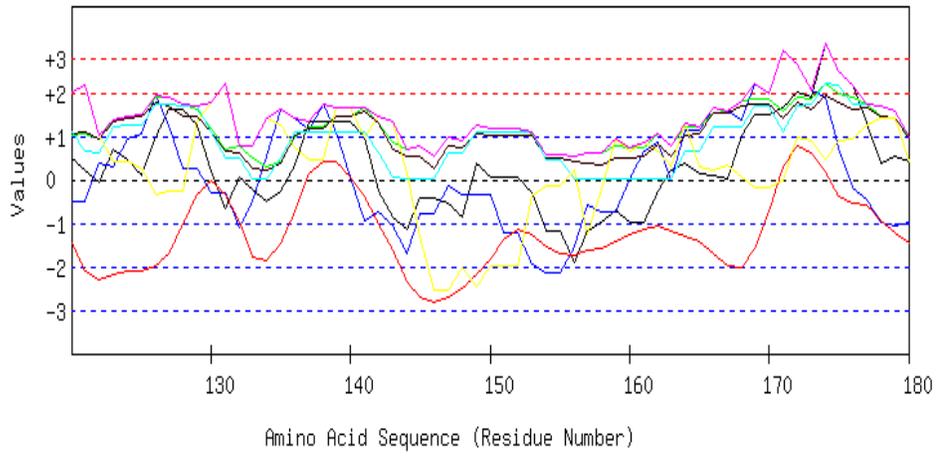
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 181 to 240
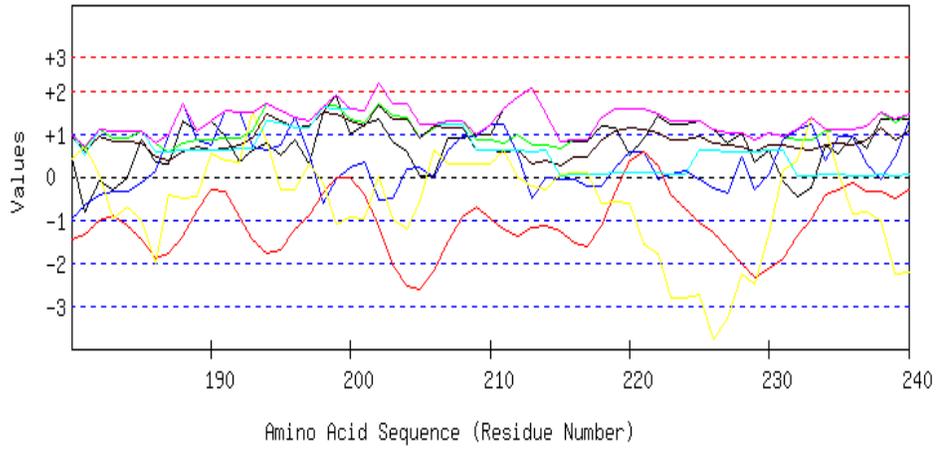
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 241 to 300
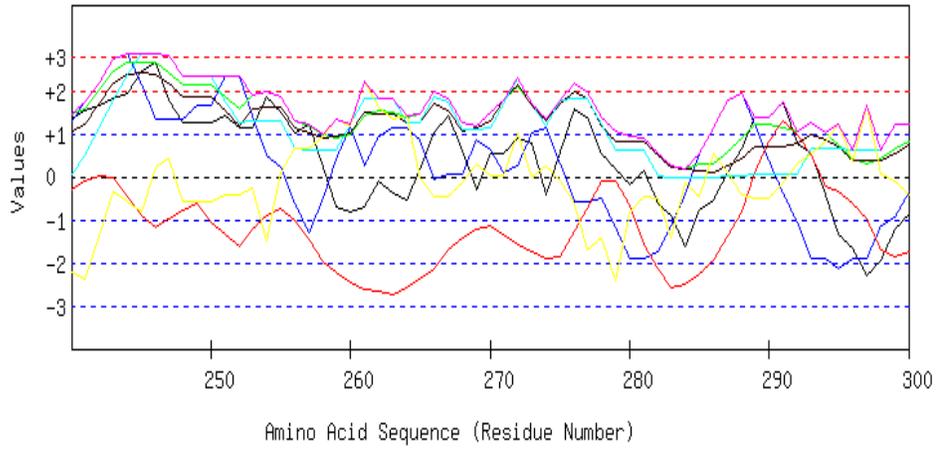
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 301 to 360
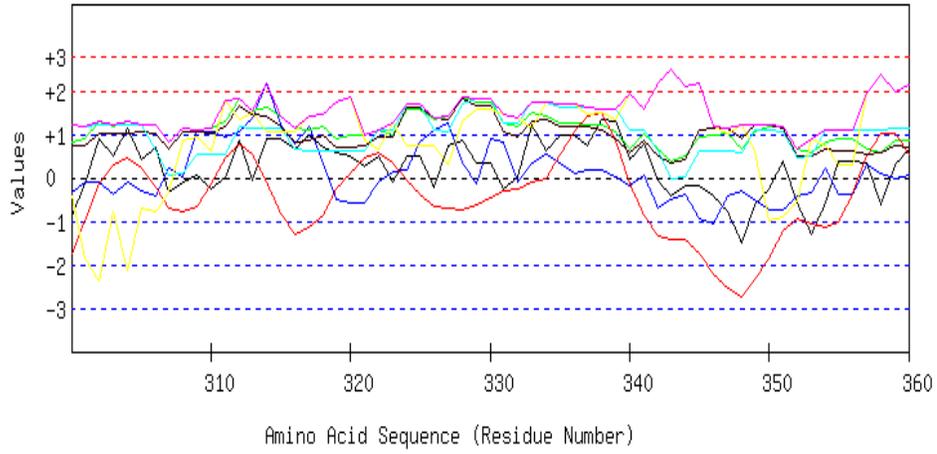
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 361 to 420
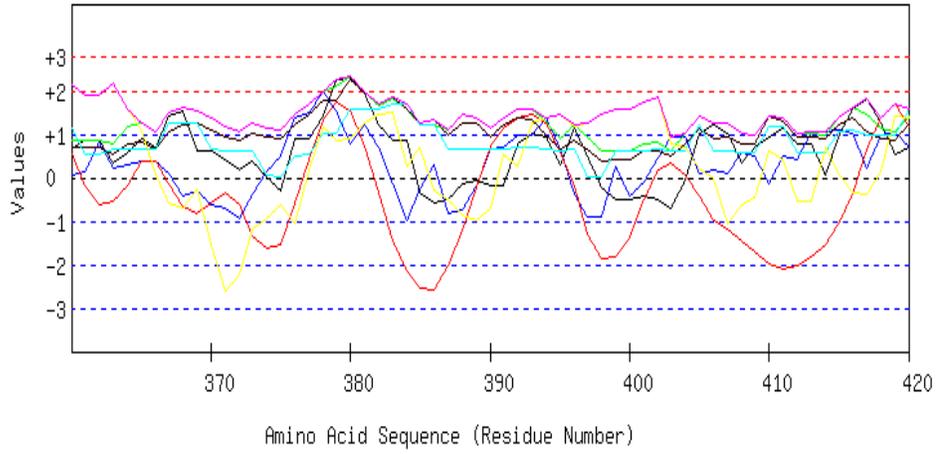
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 421 to 480
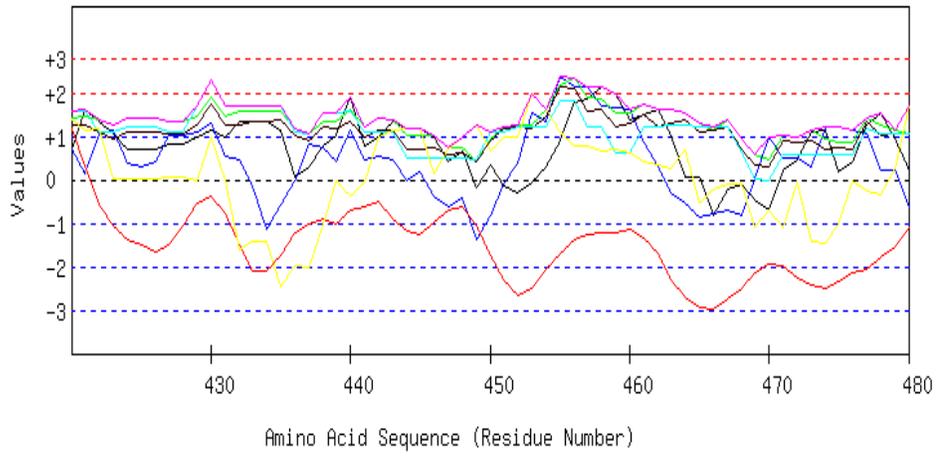
Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

GRAPHICAL RESULT :: SEQ 481 to 540
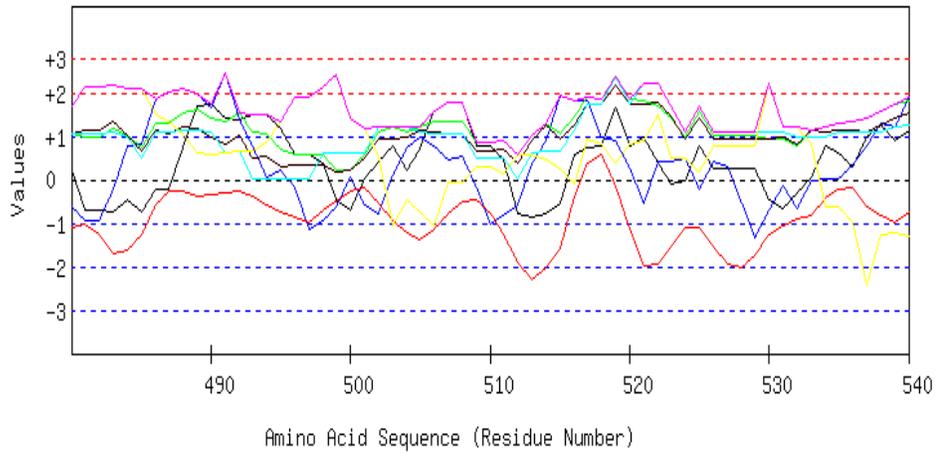
Values

+3
+2
+1
0
-1
-2
-3

490   500   510   520   530   540

Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined

Amino Acid Sequence (Residue Number)

Hydrophilicity Turns Surface Flexibility Polar Accessibility Antigenic Comb4 Combined
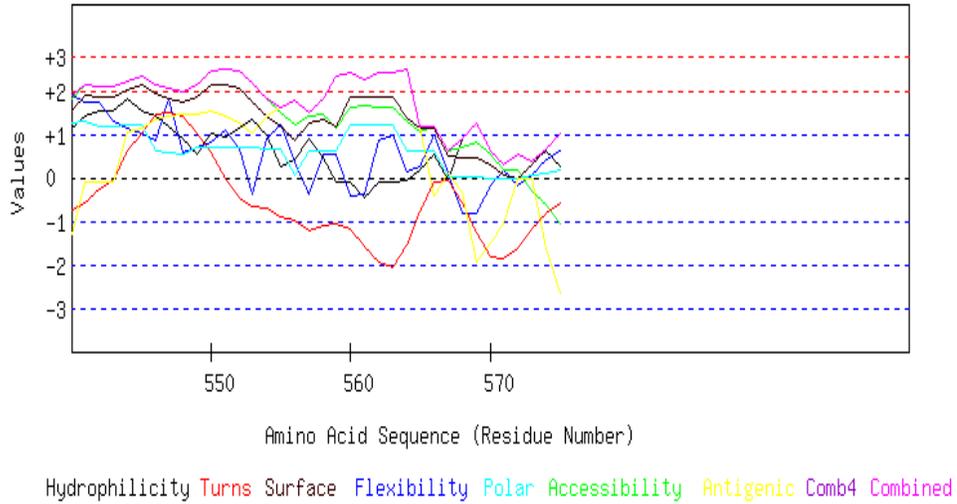
[TOP](#)

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

MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSWNE
ITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE
VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI
IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAAP
PATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAI
AHEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC
LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSD
VFEGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGK
DVLLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFA
SRQQDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG

Length=575

A.A.

Parameter
Combined

A.A.	Hydro	Flexi	Access	Turns	Surface	Polar	AntiPro	MAX	MIN	AVG
1 M	0.496	0.982	0.029	-0.796	2.005	0.249	-2.480	2.005	-2.480	0.069
2 P	0.825	1.672	0.683	-0.543	1.841	0.208	-1.429	1.841	-1.429	0.465
3 Q	1.457	1.313	1.412	0.009	1.841	0.637	-0.428	1.841	-0.428	0.892
4 T	1.951	0.822	2.197	0.300	1.886	1.177	0.556	2.197	0.300	1.270
5 T	2.349	1.187	2.206	0.457	1.841	1.160	-0.399	2.349	-0.399	1.257
6 D	2.349	0.600	1.963	0.010	1.567	1.141	-1.629	2.349	-1.629	0.857
7 E	2.381	0.916	1.786	-0.400	1.349	1.118	-1.632	2.381	-1.632	0.788
8 A	1.818	0.832	1.468	-0.855	1.185	1.100	-1.084	1.818	-1.084	0.638
9 A	1.900	0.736	1.421	-0.643	1.185	1.100	-0.965	1.900	-0.965	0.676
10 S	1.597	0.736	1.346	-0.324	1.020	0.631	-0.916	1.597	-0.916	0.584
11 V	0.869	0.419	0.898	0.109	0.647	0.033	-0.301	0.898	-0.301	0.382
12 S	0.869	0.191	0.898	0.054	0.647	0.033	-0.301	0.898	-0.301	0.342
13 T	1.369	0.167	1.169	-0.040	0.966	0.522	0.701	1.369	-0.040	0.693
14 V	0.452	0.035	0.879	-0.534	0.793	0.504	0.862	0.879	-0.534	0.427
15 A	1.046	0.944	1.449	-0.713	1.440	1.097	0.339	1.449	-0.713	0.800
16 D	0.768	1.800	1.543	-0.954	1.558	1.096	0.399	1.800	-0.954	0.887
17 I	0.705	2.074	1.776	-1.200	1.877	1.700	0.357	2.074	-1.200	1.042
18 K	1.350	2.938	2.047	-1.148	2.041	1.719	-0.072	2.938	-1.148	1.268
19 P	1.483	2.010	2.477	-1.036	2.515	2.344	0.938	2.515	-1.036	1.533
20 R	1.483	2.142	2.477	-0.637	2.515	2.344	0.938	2.515	-0.637	1.609
21 S	1.755	1.868	2.496	-0.316	2.524	2.343	1.205	2.524	-0.316	1.696
22 R	1.723	1.639	2.244	0.000	2.041	1.769	1.180	2.244	0.000	1.514
23 D	2.222	0.622	2.272	0.115	2.087	2.239	0.951	2.272	0.115	1.501
24 V	2.317	0.658	1.832	0.332	1.567	1.614	0.953	2.317	0.332	1.325
25 T	1.325	1.585	1.599	0.212	1.422	1.599	1.228	1.599	0.212	1.281
26 D	1.552	1.095	1.496	0.003	1.312	1.574	1.202	1.574	0.003	1.176

27 G	1.280	0.556	1.674	-0.764	1.631	1.680	1.276	1.680	-0.764	1.048
28 L	1.647	-0.072	1.795	-1.503	1.640	1.678	-0.323	1.795	-1.503	0.695
29 E	1.451	0.946	1.599	-2.094	1.485	1.658	-1.373	1.658	-2.094	0.525
30 K	0.952	0.998	1.328	-2.404	1.166	1.169	-2.375	1.328	-2.404	0.119
31 A	0.857	0.053	1.767	-2.404	1.686	1.794	-2.376	1.794	-2.404	0.197
32 A	1.799	-0.152	1.842	-2.330	1.631	1.789	-2.810	1.842	-2.810	0.253
33 A	1.040	0.662	1.505	-2.393	1.312	1.206	-2.839	1.505	-2.839	0.071
34 R	0.098	0.662	0.973	-2.464	0.683	0.617	-2.469	0.973	-2.469	-0.272
35 G	0.231	-0.248	1.403	-2.629	1.157	1.242	-1.460	1.403	-2.629	-0.044
36 M	0.231	-0.248	1.403	-2.723	1.157	1.242	-1.460	1.403	-2.723	-0.057
37 L	-0.136	-0.248	1.281	-2.758	1.148	1.243	0.139	1.281	-2.758	0.096
38 R	-0.041	0.495	0.842	-2.601	0.629	0.619	0.140	0.842	-2.601	0.012
39 A	-0.667	0.221	0.842	-2.516	0.720	0.636	0.084	0.842	-2.516	-0.097
40 V	0.231	0.796	1.122	-2.081	0.993	1.108	0.131	1.122	-2.081	0.328
41 G	1.445	1.431	1.477	-1.449	1.303	1.591	-0.313	1.591	-1.449	0.784
42 M	1.672	0.630	1.375	-0.633	1.194	1.566	-0.339	1.672	-0.633	0.781
43 D	2.172	0.744	1.646	0.327	1.513	2.055	0.662	2.172	0.327	1.303
44 D	1.824	1.036	1.702	0.891	1.476	2.058	0.325	2.058	0.325	1.330
45 E	1.597	0.856	1.711	0.916	1.522	2.058	-0.686	2.058	-0.686	1.139
46 D	2.222	0.772	2.169	0.503	2.114	2.635	-0.565	2.635	-0.565	1.407
47 F	1.723	-0.092	2.141	-0.111	2.069	2.165	-0.336	2.165	-0.336	1.080
48 A	1.470	0.710	2.197	-0.681	2.123	1.719	-0.164	2.197	-0.681	1.053
49 K	0.471	0.614	1.730	-0.914	1.741	1.121	0.184	1.741	-0.914	0.707
50 P	0.199	-0.218	1.449	-1.134	1.376	0.632	0.193	1.449	-1.134	0.357
51 Q	0.547	0.279	1.393	-1.355	1.412	0.629	0.531	1.412	-1.355	0.491
52 I	0.547	0.644	1.393	-1.679	1.412	0.629	0.531	1.412	-1.679	0.497
53 G	0.598	0.465	1.094	-1.709	0.929	0.055	0.625	1.094	-1.709	0.294
54 V	0.876	0.447	1.001	-1.315	0.811	0.056	0.565	1.001	-1.315	0.349
55 A	-0.136	1.119	0.692	-0.645	0.455	0.039	0.424	1.119	-0.645	0.278
56 S	0.813	0.794	1.132	0.444	0.784	0.077	-0.010	1.132		

```
-0.010     0.576
57 S        0.945     0.429    1.468    0.935    1.194    0.677   -0.037    1.468
-0.037     0.802
58 W        0.673    -0.068    1.449    0.988    1.185    0.677   -0.304    1.449
-0.304     0.657
59 N        0.869     0.471    1.646    0.540    1.339    0.697    0.747    1.646
0.471     0.901
60 E        0.591     0.471    1.739   -0.109    1.458    0.696    0.807    1.739
-0.109     0.808
61 I        0.269    -0.308    1.375   -0.519    1.212    0.694    1.269    1.375
-0.519     0.570
62 T        1.344     0.872    1.655    0.093    1.504    0.709    1.134    1.655
0.093     1.044
63 P        0.319     0.177    1.272    0.675    1.203    0.674    1.682    1.682
0.177     0.857
64 C        0.237     0.357    1.094    1.589    0.993    0.094    1.868    1.868
0.094     0.890
65 N        0.161     1.135    1.150    1.647    1.020    0.098    1.982    1.982
0.098     1.028
66 L        0.465     0.321    1.225    1.375    1.185    0.567    1.932    1.932
0.321     1.010
67 S        0.598     0.525    1.412    0.654    1.385    1.173    1.711    1.711
0.525     1.065
68 L       -0.073     0.279    1.543    0.161    1.485    1.160    1.524    1.543
-0.073     0.869
69 D       -0.382     0.483    1.244   -0.606    1.175    1.120    0.627    1.244
-0.606     0.523
70 R        0.642    -0.152    1.627   -0.636    1.476    1.155    0.079    1.627
-0.636     0.599
71 L        0.364    -0.134    1.477   -0.780    1.321    1.135   -1.091    1.477
-1.091     0.327
72 A        0.711     0.646    1.440   -0.283    1.303    1.131   -0.938    1.440
-0.938     0.573
73 N        0.440     1.273    1.617   -0.247    1.622    1.237   -0.864    1.622
-0.864     0.725
74 A        0.667     0.568    1.515   -0.515    1.513    1.212   -0.889    1.515
-0.889     0.581
75 V        1.609     0.393    1.589   -1.283    1.458    1.206   -1.324    1.609
-1.324     0.521
76 K        1.242     1.345    1.468   -1.856    1.449    1.208    0.275    1.468
-1.856     0.733
77 E        0.218     0.513    1.103   -2.145    1.093    1.171    0.639    1.171
-2.145     0.371
78 G        0.496     0.566    1.253   -1.656    1.248    1.191    1.809    1.809
-1.656     0.701
79 V        0.863     0.566    1.375   -1.097    1.257    1.190    0.210    1.375
-1.097     0.623
80 F        0.863     0.255    0.917   -0.566    0.574    0.595    0.146    0.917
-0.566     0.398
81 S        0.730     0.788    0.580   -0.428    0.164   -0.004    0.172    0.788
-0.428     0.286
82 A        0.250    -0.272    0.842   -0.658    0.446    0.015    0.504    0.842
-0.658     0.161
83 G        0.617     0.303    1.206   -0.902    0.729    0.032    0.135    1.206
-0.902     0.303
84 G        0.617    -0.498    1.188   -1.053    0.784    0.034    0.319    1.188
-1.053     0.198
85 Y        0.699    -0.498    1.365   -1.109    0.993    0.613    0.133    1.365
-1.109     0.314
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86 P      -0.016    0.399    1.300   -1.064    0.948    0.617    1.394    1.394
-1.064    0.511
87 L      -0.016   -0.284    1.300   -1.203    0.948    0.617    1.394    1.394
-1.203    0.394
88 E      -0.047    0.776    1.505   -1.225    1.148    0.637    1.435    1.505
-1.225    0.604
89 F      -0.433    0.105    1.113   -1.261    0.893    0.620    1.424    1.424
-1.261    0.352
90 G      -0.155    1.135    1.019   -1.070    0.774    0.621    1.364    1.364
-1.070    0.527
91 T       0.193    1.046    0.982   -0.989    0.756    0.617    1.518    1.518
-0.989    0.589
92 I       0.111    1.183    0.804   -0.618    0.547    0.037    1.704    1.704
-0.618    0.538
93 S       1.325    1.183    1.141   -0.159    0.911    0.522    1.444    1.444
-0.159    0.909
94 V       1.325    1.183    1.141    0.454    0.911    0.522    1.444    1.444
0.454     0.997
95 S       0.490    1.165    0.804    0.600    0.738    0.504    1.725    1.725
0.490     0.861
96 D       1.407    0.936    1.094    0.607    0.911    0.522    1.563    1.563
0.522     1.006
97 G       0.730    0.487    0.935   -0.153    0.802    0.519    1.348    1.348
-0.153    0.667
98 I       1.325    0.435    1.047   -0.672    0.765    0.518    0.760    1.325
-0.672    0.597
99 S       1.046    1.387    1.057   -0.819    0.784    1.118    0.867    1.387
-0.819    0.777
100M       0.907    0.417    1.113   -0.691    0.829    1.228    0.850    1.228
-0.691    0.665
101G       0.907    0.622    1.113   -0.289    0.829    1.228    0.850    1.228
-0.289    0.752
102H       1.148   -0.180    1.244   -0.221    0.893    1.244    0.473    1.244
-0.221    0.657
103E       0.869    0.586    1.253   -0.329    0.911    1.843    0.580    1.843
-0.329    0.816
104G       0.553   -0.194    1.197   -0.434    0.820    1.831    0.887    1.831
-0.434    0.666
105M       0.604   -0.917    1.356    0.067    1.020    1.851    1.046    1.851
-0.917    0.718
106H      -0.111    0.053    1.113    0.406    0.856    1.236    1.214    1.236
-0.111    0.681
107F      -0.838    0.776    0.664    0.732    0.483    0.638    1.829    1.829
-0.838    0.612
108S      -0.787    1.525    0.823    0.441    0.683    0.658    1.988    1.988
-0.787    0.762
109L      -0.256    0.574    1.262   -0.075    1.112    1.266    2.043    2.043
-0.256    0.846
110V       0.104    0.453    1.431   -0.691    1.303    1.245    1.749    1.749
-0.691    0.799
111S       0.452    0.550    1.375   -1.019    1.339    1.243    2.087    2.087
-1.019    0.861
112R      -0.465    0.233    1.085   -1.551    1.166    1.224    2.249    2.249
-1.551    0.563
113E       0.250    0.275    1.169   -2.043    1.157    1.219    0.803    1.219
-2.043    0.404
114V       1.116   -0.396    1.561   -2.123    1.485    1.706    0.206    1.706
-2.123    0.508
115I       1.116    0.275    1.561   -1.734    1.485    1.706    0.206    1.706
```

```
-1.734    0.659
116A       0.617    0.503    1.010   -0.812    1.002    1.083    0.795    1.083
-0.812    0.600
117D       0.617    0.407    1.010   -0.060    1.002    1.083    0.795    1.083
-0.060    0.694
118S       0.617   -0.246    1.010    0.002    1.002    1.083    0.795    1.083
-0.246    0.609
119V       0.888   -0.611    1.029   -0.587    1.011    1.083    1.062    1.083
-0.611    0.554
120E       0.490   -0.514    1.019   -1.478    1.057    1.100    2.017    2.017
-1.478    0.527
121V       0.237   -0.514    1.075   -2.082    1.112    0.654    2.190    2.190
-2.082    0.382
122V      -0.041    0.395    0.926   -2.319    0.957    0.634    1.020    1.020
-2.319    0.225
123M       0.686    0.287    1.375   -2.174    1.330    1.232    0.405    1.375
-2.174    0.449
124Q       0.459    0.940    1.477   -2.091    1.440    1.257    0.430    1.477
-2.091    0.559
125A       0.111    1.076    1.515   -2.118    1.458    1.261    0.276    1.515
-2.118    0.511
126E       0.977    1.932    1.907   -1.999    1.786    1.748   -0.321    1.932
-1.999    0.861
127R       1.603    1.261    1.907   -1.714    1.695    1.731   -0.266    1.907
-1.714    0.888
128L       1.634    0.243    1.730   -1.004    1.476    1.708   -0.269    1.730
-1.004    0.788
129D       1.268    0.243    1.608   -0.354    1.467    1.710    1.330    1.710
-0.354    1.039
130G       0.193   -0.296    1.197   -0.015    1.112    1.116    1.791    1.791
-0.296    0.728
131S      -0.654   -0.296    0.683   -0.349    0.647    0.497    2.227    2.227
-0.654    0.393
132V       0.060   -1.115    0.767   -0.972    0.638    0.491    0.782    0.782
-1.115    0.093
133L      -0.212   -0.480    0.487   -1.761    0.273    0.002    0.791    0.791
-1.761   -0.129
134L      -0.484    0.556    0.281   -1.865    0.228    0.020    1.413    1.413
-1.865    0.021
135A      -0.262    1.615    0.403   -1.473    0.392    0.489    1.244    1.615
-1.473    0.344
136G       0.332    1.411    0.973   -0.722    1.039    1.082    0.720    1.411
-0.722    0.691
137C       1.325    1.143    1.206    0.151    1.185    1.097    0.445    1.325
0.151    0.936
138D       1.325    1.734    1.206    0.429    1.185    1.097    0.445    1.734
0.429    1.060
139K       1.325    1.080    1.449    0.439    1.458    1.116    1.675    1.675
0.439    1.220
140S       1.325    0.045    1.449    0.061    1.458    1.116    1.675    1.675
0.045    1.018
141L       0.971   -0.925    1.655   -0.390    1.595    1.115    0.998    1.655
-0.925    0.717
142P      -0.243   -0.721    1.300   -1.035    1.285    0.632    1.442    1.442
-1.035    0.380
143G      -0.869   -1.079    0.842   -1.618    0.692    0.054    1.321    1.321
-1.618   -0.094
144M      -1.147   -1.707    0.692   -2.350    0.537    0.034    0.151    0.692
-2.350   -0.541
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145L	-0.433	-0.779	0.776	-2.688	0.528	0.029	-1.294	0.776
-2.688	-0.551							
146M	-0.433	-0.779	0.533	-2.804	0.255	0.010	-2.524	0.533
-2.804	-0.820							
147A	-0.528	-0.126	0.973	-2.685	0.774	0.634	-2.525	0.973
-2.685	-0.497							
148A	-0.844	-0.330	0.898	-2.513	0.738	0.623	-2.035	0.898
-2.513	-0.495							
149A	0.370	-0.330	1.253	-2.182	1.048	1.106	-2.479	1.253
-2.479	-0.173							
150R	0.054	-0.330	1.178	-1.827	1.011	1.094	-1.988	1.178
-1.988	-0.115							
151L	0.054	-1.240	1.178	-1.362	1.011	1.094	-1.988	1.178
-1.988	-0.179							
152D	0.054	-1.210	1.178	-1.136	1.011	1.094	-1.988	1.178
-1.988	-0.142							
153L	-0.313	-1.953	1.057	-1.244	1.002	1.096	-0.390	1.096
-1.953	-0.106							
154A	-1.160	-2.155	0.561	-1.523	0.483	0.475	-0.138	0.561
-2.155	-0.494							
155A	-1.160	-2.155	0.561	-1.706	0.483	0.475	-0.138	0.561
-2.155	-0.520							
156V	-1.912	-1.528	0.543	-1.754	0.401	0.006	0.203	0.543
-1.912	-0.577							
157F	-1.198	-0.576	0.627	-1.619	0.392	0.000	-1.242	0.627
-1.619	-0.517							
158L	-0.970	-0.727	0.618	-1.569	0.346	0.000	-0.231	0.618
-1.569	-0.362							
159Y	-0.692	-0.727	0.767	-1.403	0.501	0.020	0.939	0.939
-1.403	-0.085							
160A	-0.964	0.039	0.748	-1.264	0.492	0.021	0.672	0.748
-1.264	-0.037							
161G	-0.964	0.666	0.730	-1.147	0.547	0.022	0.856	0.856
-1.147	0.101							
162S	-0.250	0.852	1.057	-1.053	0.811	0.035	0.640	1.057
-1.053	0.299							
163I	0.231	-0.003	0.795	-1.176	0.528	0.016	0.309	0.795
-1.176	0.100							
164L	0.364	1.153	1.225	-1.320	1.002	0.641	1.318	1.318
-1.320	0.626							
165P	0.136	1.153	1.234	-1.404	1.048	0.641	0.308	1.234
-1.404	0.445							
166G	0.085	1.650	1.533	-1.709	1.531	1.215	0.213	1.650
-1.709	0.645							
167R	0.010	1.561	1.589	-1.983	1.558	1.219	0.326	1.589
-1.983	0.612							
168A	1.002	1.375	1.823	-2.012	1.704	1.234	0.051	1.823
-2.012	0.740							
169K	1.502	2.231	1.851	-1.597	1.750	1.704	-0.178	2.231
-1.597	1.037							
170L	1.502	1.974	1.851	-0.752	1.750	1.704	-0.178	1.974
-0.752	1.121							
171S	1.647	2.992	1.571	0.307	1.431	1.099	-0.017	2.992
-0.017	1.290							
172D	2.008	2.675	1.898	0.763	1.795	1.699	0.966	2.675
0.763	1.686							
173G	1.913	2.040	1.879	0.602	1.631	1.729	0.901	2.040
0.602	1.528							
174S	3.127	1.904	2.234	0.192	1.941	2.212	0.457	3.127

0.192	1.724							
175E	**2.482**	0.724	**1.963**	-0.365	1.777	**2.194**	0.886	2.482
-0.365	1.380							
176R	**2.178**	-0.176	1.889	-0.533	1.613	1.725	0.935	2.178
-0.533	1.090							
177D	1.312	-0.450	1.758	-0.588	1.640	1.726	1.257	1.758
-0.588	0.951							
178V	0.395	-0.989	1.468	-0.937	1.467	1.708	1.419	1.708
-0.989	0.647							
179T	0.534	-1.067	1.412	-1.224	1.422	1.597	1.436	1.597
-1.224	0.587							
180I	0.402	-0.983	0.982	-1.454	0.948	0.973	0.427	0.982
-1.454	0.185							
181I	-0.812	-0.659	0.646	-1.358	0.583	0.488	0.687	0.687
-1.358	-0.061							
182D	-0.085	-0.430	1.094	-1.001	0.957	1.086	0.072	1.094
-1.001	0.242							
183A	-0.281	-0.342	0.898	-0.886	0.802	1.066	-0.979	1.066
-0.979	0.040							
184F	-0.009	-0.342	0.917	-1.127	0.811	1.066	-0.712	1.066
-1.127	0.086							
185E	0.857	-0.132	1.047	-1.456	0.784	1.064	-1.034	1.064
-1.456	0.161							
186A	0.357	0.149	0.776	-1.915	0.465	0.575	-2.035	0.776
-2.035	-0.232							
187V	0.313	0.962	0.561	-1.787	0.373	0.593	-0.402	0.962
-1.787	0.088							
188G	1.306	1.686	0.776	-1.362	0.574	0.609	-0.494	1.686
-1.362	0.442							
189A	1.078	0.854	0.879	-0.761	0.683	0.634	-0.468	1.078
-0.761	0.414							
190C	1.306	0.740	0.870	-0.282	0.638	0.634	0.542	1.306
-0.282	0.635							
191S	0.958	1.559	0.907	-0.335	0.656	0.638	0.388	1.559
-0.335	0.682							
192R	0.332	1.517	0.907	-0.941	0.747	0.655	0.333	1.517
-0.941	0.507							
193G	0.610	0.704	1.057	-1.441	0.902	0.675	1.503	1.503
-1.441	0.573							
194L	0.787	0.616	1.702	-1.786	1.467	1.282	0.880	1.702
-1.786	0.707							
195M	0.509	0.724	1.552	-1.712	1.312	1.262	-0.290	1.552
-1.712	0.480							
196S	0.876	1.377	1.393	-1.220	1.157	1.126	-0.298	1.393
-1.220	0.630							
197R	0.281	0.521	1.281	-0.909	1.194	1.128	0.290	1.281
-0.909	0.541							
198A	1.495	-0.617	1.636	-0.395	1.504	1.611	-0.154	1.636
-0.617	0.726							
199D	1.894	-0.042	1.646	-0.018	1.458	1.594	-1.109	1.894
-1.109	0.775							
200V	0.977	0.233	1.356	-0.021	1.285	1.576	-0.947	1.576
-0.947	0.637							
201D	1.205	0.329	1.253	-0.402	1.175	1.551	-0.972	1.551
-0.972	0.591							
202A	1.337	-0.534	1.683	-1.149	1.649	**2.175**	0.037	2.175
-1.149	0.743							
203I	0.838	-0.498	1.412	-2.065	1.330	1.686	-0.964	1.686
-2.065	0.248							

204E	0.566	0.185	1.393	-2.541	1.321	1.687	-1.231	1.687
-2.541	0.197							
205R	0.022	0.237	0.907	-2.623	0.911	1.215	-0.600	1.215
-2.623	0.010							
206A	0.022	-0.001	1.150	-2.188	1.185	1.234	0.630	1.234
-2.188	0.290							
207I	0.888	0.626	1.281	-1.496	1.157	1.233	0.309	1.281
-1.496	0.571							
208C	0.888	0.950	1.281	-0.946	1.157	1.233	0.309	1.281
-0.946	0.696							
209P	0.983	0.950	0.842	-0.709	0.638	0.608	0.310	0.983
-0.709	0.517							
210G	0.983	1.219	0.842	-0.999	0.638	0.608	0.310	1.219
-0.999	0.514							
211E	1.578	1.219	0.767	-1.212	0.565	0.624	0.610	1.578
-1.212	0.593							
212G	1.849	0.529	0.973	-1.377	0.610	0.606	-0.012	1.849
-1.377	0.454							
213A	2.077	-0.504	0.720	-1.196	0.291	0.587	-0.231	2.077
-1.196	0.249							
214C	1.451	-0.013	0.720	-1.135	0.382	0.604	-0.287	1.451
-1.135	0.246							
215G	0.838	-0.050	0.646	-1.248	0.255	0.024	0.072	0.838
-1.248	0.077							
216G	0.806	-0.068	0.851	-1.529	0.455	0.044	0.112	0.851
-1.529	0.096							
217M	0.806	-0.204	0.851	-1.630	0.455	0.044	0.112	0.851
-1.630	0.062							
218Y	1.160	-0.204	1.365	-1.147	0.856	0.067	-0.623	1.365
-1.147	0.211							
219T	1.129	0.203	1.571	-0.340	1.057	0.087	-0.583	1.571
-0.583	0.446							
220A	0.503	0.568	1.571	0.378	1.148	0.104	-0.638	1.571
-0.638	0.519							
221N	0.901	0.568	1.580	0.568	1.103	0.087	-1.593	1.580
-1.593	0.459							
222T	1.432	-0.042	1.477	0.273	1.020	0.088	-1.765	1.477
-1.765	0.355							
223M	1.236	0.043	1.281	-0.426	0.866	0.068	-2.816	1.281
-2.816	0.036							
224A	1.236	0.157	1.281	-0.728	0.866	0.068	-2.816	1.281
-2.816	0.009							
225S	1.287	-0.048	1.309	-1.079	0.920	0.627	-2.729	1.309
-2.729	0.041							
226A	1.091	-0.276	1.113	-1.288	0.765	0.607	-3.780	1.113
-3.780	-0.253							
227A	0.775	-0.390	1.038	-1.678	0.729	0.595	-3.290	1.038
-3.290	-0.317							
228E	1.002	0.465	1.029	-2.006	0.683	0.595	-2.280	1.029
-2.280	-0.073							
229A	0.326	-0.314	0.870	-2.351	0.574	0.592	-2.495	0.870
-2.495	-0.400							
230L	0.604	0.045	1.019	-2.129	0.729	0.612	-1.325	1.019
-2.129	-0.064							
231G	-0.111	0.876	0.935	-1.920	0.738	0.617	0.120	0.935
-1.920	0.180							
232M	-0.471	1.105	0.851	-1.360	0.647	0.037	0.366	1.105
-1.360	0.168							
233S	-0.243	1.219	0.842	-0.965	0.601	0.037	1.377	1.377

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-0.965     0.410
234L         0.749    0.363    1.075   -0.428    0.747    0.052    1.102    1.102
-0.428     0.523
235P         0.522    0.926    1.085   -0.291    0.793    0.052    0.091    1.085
-0.291     0.454
236G         0.920    0.926    1.094   -0.148    0.747    0.034   -0.864    1.094
-0.864     0.387
237S         0.642    0.299    1.188   -0.349    0.866    0.033   -0.803    1.188
-0.803     0.268
238A         1.356   -0.066    1.515   -0.353    1.130    0.047   -1.018    1.515
-1.018     0.373
239A         1.356    0.473    1.272   -0.493    0.856    0.028   -2.249    1.356
-2.249     0.178
240P         1.325    1.287    1.477   -0.317    1.057    0.048   -2.208    1.477
-2.208     0.381
241P         1.546    1.742    1.599   -0.119    1.221    0.517   -2.377    1.742
-2.377     0.590
242A         1.679    2.196    2.029    0.021    1.695    1.141   -1.368    2.196
-1.368     1.056
243T         1.812    2.735    2.459   -0.008    2.169    1.766   -0.358    2.735
-0.358     1.511
244D         1.944    2.872    2.646   -0.464    2.369    2.372   -0.579    2.872
-0.579     1.594
245R         2.444    2.158    2.674   -0.881    2.415    2.842   -0.808    2.842
-0.881     1.549
246R         2.671    1.345    2.664   -1.200    2.369    2.842    0.202    2.842
-1.200     1.556
247R         1.761    1.345    2.403   -0.983    2.169    2.826    0.413    2.826
-0.983     1.419
248D         1.261    1.345    2.132   -0.761    1.850    2.337   -0.588    2.337
-0.761     1.082
249G         1.261    1.662    2.132   -0.609    1.850    2.337   -0.588    2.337
-0.609     1.149
250F         1.261    1.662    2.132   -1.041    1.850    2.337   -0.588    2.337
-1.041     1.087
251A         1.407    2.327    1.851   -1.341    1.531    1.732   -0.428    2.327
-1.341     1.011
252R         1.135    2.327    1.571   -1.622    1.166    1.243   -0.418    2.327
-1.622     0.772
253R         1.154    1.417    1.907   -1.224    1.586    1.286   -0.255    1.907
-1.224     0.839
254S         1.868    0.507    1.973   -0.906    1.631    1.282   -1.517    1.973
-1.517     0.691
255G         1.502    0.227    1.851   -0.748    1.622    1.283    0.082    1.851
-0.748     0.831
256Q         1.002   -0.605    1.300   -1.037    1.139    0.660    0.672    1.300
-1.037     0.447
257A         1.230   -1.300    1.197   -1.454    1.030    0.635    0.646    1.230
-1.454     0.283
258V         0.237   -0.486    0.963   -1.990    0.884    0.620    0.921    0.963
-1.990     0.164
259V        -0.705    0.423    0.889   -2.237    0.938    0.626    1.356    1.356
-2.237     0.184
260E        -0.819    1.147    0.991   -2.467    1.039    1.208    1.192    1.208
-2.467     0.327
261L        -0.686    0.247    1.421   -2.600    1.513    1.833    2.201    2.201
-2.600     0.561
262L        -0.092    0.942    1.533   -2.659    1.476    1.831    1.613    1.831
-2.659     0.664
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263R      -0.363    1.147    1.515   -2.729    1.467    1.831    1.346    1.831
-2.729    0.602
264R      -0.528    1.147    1.384   -2.567    1.257    1.252    1.413    1.413
-2.567    0.480
265G       0.187    0.872    1.468   -2.382    1.248    1.246   -0.032    1.468
-2.382    0.372
266I       1.034   -0.080    1.982   -2.138    1.713    1.866   -0.468    1.982
-2.138    0.558
267T       1.401    0.041    1.823   -1.707    1.558    1.730   -0.476    1.823
-1.707    0.624
268A       0.629    0.041    1.253   -1.430    1.066    1.107   -0.154    1.253
-1.430    0.359
269R      -0.313    0.872    1.178   -1.240    1.121    1.112    0.281    1.178
-1.240    0.430
270D       0.522    0.634    1.515   -1.143    1.294    1.131    0.000    1.515
-1.143    0.564
271I       0.553    0.095    1.767   -1.358    1.777    1.705    0.024    1.777
-1.358    0.652
272L       0.914    0.245    2.094   -1.595    2.142    2.305    1.008    2.305
-1.595    1.016
273T       0.781    1.024    1.664   -1.745    1.668    1.680   -0.001    1.680
-1.745    0.724
274K      -0.433    1.143    1.328   -1.900    1.303    1.195    0.259    1.328
-1.900    0.414
275E       0.566    0.311    1.795   -1.849    1.686    1.793   -0.089    1.795
-1.849    0.602
276A       1.590   -0.589    2.178   -1.274    1.987    1.828   -0.637    2.178
-1.274    0.726
277F       1.394   -0.589    1.982   -0.730    1.832    1.808   -1.688    1.982
-1.688    0.573
278E       0.528   -0.510    1.393   -0.098    1.175    1.216   -1.431    1.393
-1.431    0.325
279N       0.168   -1.182    1.066   -0.094    0.811    0.616   -2.415    1.066
-2.415   -0.147
280A      -0.199   -1.905    0.945   -0.648    0.802    0.618   -0.816    0.945
-1.905   -0.172
281I       0.149   -1.905    0.889   -1.568    0.838    0.615   -0.479    0.889
-1.905   -0.209
282A      -0.610   -1.755    0.552   -2.159    0.519    0.033   -0.507    0.552
-2.159   -0.561
283V      -0.920   -1.127    0.253   -2.595    0.209   -0.008   -1.405    0.253
-2.595   -0.799
284V      -1.634   -0.404    0.188   -2.499    0.164   -0.004   -0.143    0.188
-2.499   -0.619
285M      -0.768    0.548    0.318   -2.274    0.136   -0.006   -0.465    0.548
-2.274   -0.359
286A      -0.540    1.153    0.309   -1.951    0.091   -0.006    0.546    1.153
-1.951   -0.057
287F       0.104    1.762    0.580   -1.383    0.255    0.013    0.117    1.762
-1.383    0.207
288G       0.667    1.936    0.898   -0.831    0.419    0.031   -0.431    1.936
-0.831    0.384
289G       1.375    1.213    1.206    0.114    0.683    0.055   -0.489    1.375
-0.489    0.594
290S       1.375    0.381    1.206    0.837    0.683    0.055   -0.489    1.375
-0.489    0.578
291T       1.723   -0.384    1.150    1.299    0.720    0.052   -0.151    1.723
-0.384    0.630
292N       0.781   -1.079    1.075    0.979    0.774    0.057    0.283    1.075
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        -1.079     0.410
293A      0.553   -1.893    1.244    0.514    0.993    0.677    0.550    1.244
         -1.893    0.377
294V     -0.439   -1.893    1.010   -0.235    0.847    0.663    0.825    1.010
         -1.893    0.111
295L     -1.350   -2.121    0.730   -0.337    0.701    0.648    1.220    1.220
         -2.121   -0.073
296H     -1.660   -1.917    0.431   -0.609    0.392    0.607    0.323    0.607
         -1.917   -0.348
297L     -2.298   -1.917    0.290   -0.961    0.373    0.609    1.654    1.654
         -2.298   -0.321
298L     -1.931   -1.138    0.412   -1.702    0.382    0.608    0.056    0.608
         -1.931   -0.473
299A     -1.217   -0.933    0.655   -1.846    0.547    1.222   -0.112    1.222
         -1.846   -0.241
300I     -0.857   -0.324    0.823   -1.759    0.738    1.202   -0.406    1.202
         -1.759   -0.083
301A     -0.142   -0.096    0.907   -0.999    0.729    1.196   -1.851    1.196
         -1.851   -0.036
302H      0.882   -0.096    1.290   -0.131    1.030    1.232   -2.399    1.290
         -2.399    0.258
303E      0.515   -0.390    1.169    0.281    1.020    1.233   -0.800    1.233
         -0.800    0.433
304A      1.154   -0.110    1.309    0.463    1.039    1.231   -2.132    1.309
         -2.132    0.422
305N      0.440   -0.314    1.225    0.238    1.048    1.237   -0.687    1.237
         -0.687    0.455
306V      0.718   -0.432    1.216   -0.212    1.030    0.637   -0.794    1.216
         -0.794    0.309
307A     -0.357    0.203    0.804   -0.698    0.674    0.043   -0.333    0.804
         -0.698    0.048
308L     -0.111    0.029    1.132   -0.767    1.048    0.085    0.840    1.132
         -0.767    0.322
309S      0.079    1.089    1.103   -0.661    1.057    0.534    0.945    1.103
         -0.661    0.592
310L     -0.269    1.046    1.160   -0.124    1.020    0.536    0.607    1.160
         -0.269    0.568
311Q      0.010    0.926    1.309    0.463    1.175    0.556    1.777    1.777
          0.010    0.888
312D      0.857    1.062    1.823    0.797    1.640    1.176    1.341    1.823
          0.797    1.242
313F     -0.060    1.379    1.533    0.555    1.467    1.157    1.503    1.533
         -0.060    1.076
314S      0.882    2.180    1.608   -0.102    1.412    1.152    1.068    2.180
         -0.102    1.172
315R      0.914    1.229    1.431   -0.801    1.194    1.130    1.065    1.431
         -0.801    0.880
316I      0.642    0.774    1.150   -1.305    0.829    0.641    1.074    1.150
         -1.305    0.544
317G      0.990    1.189    1.094   -1.144    0.866    0.638    1.412    1.412
         -1.144    0.720
318S      0.711    0.357    1.188   -0.848    0.984    0.637    1.472    1.472
         -0.848    0.643
319G      0.579   -0.498    0.917   -0.261    0.683    0.632    1.740    1.740
         -0.498    0.542
320V      0.503   -0.587    0.973    0.106    0.711    0.636    1.853    1.853
         -0.587    0.599
321P      0.275   -0.587    0.982    0.452    0.756    0.636    0.843    0.982
         -0.587    0.480
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322H	0.496	-0.114	1.103	0.560	0.920	1.105	0.674	1.105
-0.114	0.678							
323L	-0.098	0.155	0.991	0.343	0.957	1.106	1.262	1.262
-0.098	0.674							
324A	0.496	0.185	1.561	-0.069	1.604	1.699	0.739	1.699
-0.069	0.888							
325D	0.496	0.812	1.561	-0.390	1.604	1.699	0.739	1.699
-0.390	0.932							
326V	-0.218	1.087	1.337	-0.675	1.385	1.084	0.723	1.385
-0.675	0.674							
327K	0.724	1.273	1.412	-0.690	1.330	1.078	0.288	1.412
-0.690	0.774							
328P	0.857	0.345	1.842	-0.734	1.804	1.703	1.297	1.842
-0.734	1.016							
329F	0.357	-0.128	1.730	-0.602	1.658	1.834	1.573	1.834
-0.602	0.918							
330G	0.357	0.902	1.730	-0.473	1.658	1.834	1.573	1.834
-0.473	1.083							
331R	-0.269	0.814	1.272	-0.316	1.066	1.256	1.453	1.453
-0.316	0.754							
332H	0.010	-0.096	1.178	-0.256	0.948	1.257	1.393	1.393
-0.256	0.634							
333V	1.224	0.353	1.515	-0.110	1.312	1.742	1.133	1.742
-0.110	1.024							
334M	0.629	0.540	1.403	-0.018	1.349	1.744	1.721	1.744
-0.018	1.052							
335S	0.996	0.329	1.244	0.527	1.194	1.608	1.713	1.713
0.329	1.087							
336D	0.996	0.101	1.244	1.048	1.194	1.608	1.713	1.713
0.101	1.129							
337V	0.724	0.189	1.225	1.439	1.185	1.608	1.446	1.608
0.189	1.117							
338D	1.350	0.189	1.225	1.492	1.093	1.591	1.502	1.591
0.189	1.206							
339H	1.299	0.009	1.066	0.859	0.893	1.571	1.342	1.571
0.009	1.006							
340I	0.433	-0.178	0.674	-0.147	0.565	1.084	1.940	1.940
-0.178	0.624							
341G	0.800	0.051	1.038	-0.878	0.847	1.101	1.571	1.571
-0.878	0.647							
342G	-0.066	-0.691	0.646	-1.333	0.519	0.614	2.169	2.169
-1.333	0.265							
343V	-0.433	-0.486	0.365	-1.434	0.337	-0.005	2.490	2.490
-1.434	0.119							
344P	-0.193	-0.390	0.496	-1.415	0.401	0.011	2.113	2.113
-1.415	0.146							
345V	-0.193	-0.953	0.954	-1.726	1.084	0.605	2.178	2.178
-1.726	0.278							
346V	-0.420	-1.061	0.963	-2.212	1.130	0.605	1.168	1.168
-2.212	0.025							
347M	-0.768	-0.426	1.001	-2.543	1.148	0.609	1.014	1.148
-2.543	0.005							
348K	-1.482	-0.312	0.674	-2.737	0.884	0.596	1.229	1.229
-2.737	-0.164							
349A	-0.616	-0.516	1.066	-2.344	1.212	1.083	0.631	1.212
-2.344	0.074							
350L	-0.250	-0.721	1.188	-1.880	1.221	1.081	-0.968	1.221
-1.880	-0.047							
351L	0.376	-0.721	1.188	-1.240	1.130	1.064	-0.912	1.188

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           -1.240    0.126
352D       -0.566   -0.426    0.655   -0.957    0.501    0.475   -0.542    0.655
          -0.957   -0.123
353A       -1.280   -0.338    0.571   -1.074    0.510    0.480    0.903    0.903
          -1.280   -0.033
354G       -0.566    0.201    0.814   -1.140    0.674    1.095    0.735    1.095
          -1.140    0.259
355L        0.376   -0.390    0.889   -1.024    0.619    1.089    0.301    1.089
          -1.024    0.266
356L        0.376   -0.390    0.889   -0.369    0.619    1.089    0.301    1.089
          -0.390    0.359
357H        0.332    0.305    0.674    0.517    0.528    1.107    1.933    1.933
           0.305    0.771
358G       -0.610    0.119    0.599    1.030    0.583    1.113    2.368    2.368
          -0.610    0.743
359D        0.300   -0.017    0.879    1.009    0.729    1.127    1.973    1.973
          -0.017    0.857
360C        0.648    0.071    0.842    0.539    0.711    1.123    2.127    2.127
           0.071    0.866
361L        0.844    0.125    0.879   -0.198    0.692    0.523    1.901    1.901
          -0.198    0.681
362T        0.844    0.820    0.879   -0.637    0.692    0.523    1.901    1.901
          -0.637    0.718
363V        0.345    0.215    0.767   -0.558    0.547    0.654    2.177    2.177
          -0.558    0.592
364T        0.585    0.311    1.178   -0.177    0.793    0.657    1.595    1.595
          -0.177    0.706
365G        0.901    0.395    1.253    0.377    0.829    0.668    1.105    1.253
           0.377    0.790
366H        0.705    0.377    1.057    0.379    0.674    0.648    0.054    1.057
           0.054    0.556
367T        1.432    0.083    1.505   -0.147    1.048    1.246   -0.561    1.505
          -0.561    0.658
368M        1.546   -0.408    1.608   -0.660    1.203    1.267   -0.714    1.608
          -0.714    0.549
369A        0.604   -0.294    1.533   -0.837    1.257    1.272   -0.280    1.533
          -0.837    0.465
370E        0.604   -0.619    1.375   -0.564    1.084    0.653   -1.557    1.375
          -1.557    0.139
371N        0.408   -0.703    1.178   -0.346    0.929    0.633   -2.608    1.178
          -2.608   -0.073
372L        0.168   -0.953    1.047   -0.627    0.866    0.617   -2.231    1.047
          -2.231   -0.159
373A        0.364   -0.390    1.244   -1.323    1.020    0.637   -1.180    1.244
          -1.323    0.053
374A        0.003    0.149    1.160   -1.639    0.929    0.057   -0.934    1.160
          -1.639   -0.039
375I       -0.307    0.507    1.103   -1.528    0.893    0.035   -0.601    1.103
          -1.528    0.015
376T        0.907    1.371    1.459   -0.564    1.203    0.518   -1.045    1.459
          -1.045    0.550
377P        0.907    1.507    1.702    0.437    1.476    0.537    0.185    1.702
           0.185    0.965
378P        1.407    1.980    1.973    1.338    1.795    1.026    1.186    1.980
           1.026    1.529
379D        2.273    1.525    2.103    1.740    1.768    1.025    0.865    2.273
           0.865    1.614
380P        2.305    0.782    2.356    1.523    2.251    1.599    0.889    2.356
           0.782    1.672
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381D	1.938	1.237	1.991	0.726	1.968	1.582	1.258	1.991
0.726	1.529							
382G	1.224	0.698	1.664	-0.349	1.704	1.568	1.473	1.704
-0.349	1.140							
383K	0.857	-0.134	1.823	-1.471	1.859	1.704	1.481	1.859
-1.471	0.874							
384V	0.857	-0.965	1.580	-2.141	1.586	1.685	0.251	1.685
-2.141	0.407							
385L	-0.357	-0.260	1.225	-2.539	1.276	1.202	0.695	1.276
-2.539	0.177							
386R	-0.585	0.303	1.234	-2.567	1.321	1.202	-0.316	1.321
-2.567	0.085							
387A	-0.503	-0.835	1.085	-2.033	0.993	0.647	-0.494	1.085
-2.033	-0.163							
388L	-0.136	-0.745	1.449	-1.200	1.276	0.665	-0.862	1.449
-1.200	0.064							
389A	-0.060	-0.182	1.393	-0.229	1.248	0.661	-0.976	1.393
-0.976	0.265							
390N	-0.193	0.674	1.122	0.733	0.948	0.657	-0.707	1.122
-0.707	0.462							
391P	-0.193	0.692	1.365	1.122	1.221	0.675	0.523	1.365
-0.193	0.772							
392I	0.800	0.960	1.599	1.379	1.367	0.690	0.247	1.599
0.247	1.006							
393H	1.028	0.960	1.589	1.468	1.321	0.690	1.258	1.589
0.690	1.188							
394P	0.945	1.361	1.281	1.277	0.966	0.650	1.371	1.371
0.650	1.122							
395S	0.307	0.678	0.898	0.589	0.674	0.632	1.473	1.473
0.307	0.750							
396G	1.141	-0.382	1.234	-0.174	0.847	0.650	1.192	1.234
-0.382	0.644							
397G	0.503	-0.919	0.935	-1.305	0.656	0.032	1.246	1.246
-1.305	0.164							
398I	-0.212	-0.919	0.608	-1.847	0.392	0.019	1.461	1.461
-1.847	-0.071							
399T	-0.490	0.261	0.618	-1.825	0.410	0.619	1.569	1.569
-1.825	0.166							
400I	-0.490	-0.434	0.618	-1.393	0.410	0.619	1.569	1.569
-1.393	0.128							
401L	-0.439	-0.110	0.776	-0.520	0.610	0.639	1.728	1.728
-0.520	0.384							
402H	-0.515	0.453	0.832	0.164	0.638	0.642	1.842	1.842
-0.515	0.579							
403G	-0.711	0.938	0.636	0.344	0.483	0.622	0.791	0.938
-0.711	0.443							
404S	-0.073	0.938	1.019	0.076	0.774	0.640	0.689	1.019
-0.073	0.581							
405L	1.002	0.083	1.431	-0.423	1.130	1.234	0.228	1.431
-0.423	0.669							
406A	1.230	0.191	1.262	-0.987	0.911	0.614	-0.039	1.262
-0.987	0.455							
407P	1.002	0.095	1.272	-1.174	0.957	0.614	-1.050	1.272
-1.174	0.245							
408E	0.357	0.568	1.001	-1.478	0.793	0.595	-0.621	1.001
-1.478	0.173							
409G	0.705	0.483	0.963	-1.719	0.774	0.592	-0.467	0.963
-1.719	0.190							
410A	0.933	-0.144	1.412	-1.970	1.412	1.186	0.608	1.412

	-1.970	0.491						
411V	1.129	0.483	1.365	-2.095	1.294	1.187	0.429	1.365
	-2.095	0.542						
412V	0.768	0.405	1.038	-2.010	0.929	0.588	-0.555	1.038
	-2.010	0.166						
413K	0.768	1.040	1.038	-1.808	0.929	0.588	-0.555	1.040
	-1.808	0.286						
414T	0.054	1.064	0.973	-1.540	0.884	0.592	0.706	1.064
	-1.540	0.390						
415A	0.920	1.113	1.365	-1.061	1.212	1.079	0.109	1.365
	-1.061	0.677						
416G	1.565	1.016	1.636	-0.388	1.376	1.098	-0.320	1.636
	-0.388	0.855						
417F	1.837	0.215	1.459	0.648	1.057	0.992	-0.394	1.837
	-0.394	0.830						
418D	1.274	0.964	1.141	1.361	0.893	0.974	0.154	1.361
	0.154	0.966						
419S	0.560	1.052	1.075	1.709	0.847	0.978	1.415	1.709
	0.560	1.091						
420D	0.692	0.688	1.412	1.194	1.257	1.577	1.388	1.577
	0.688	1.173						
421V	1.634	0.149	1.468	0.307	1.257	1.573	1.138	1.634
	0.149	1.075						
422F	1.331	1.058	1.393	-0.581	1.093	1.104	1.187	1.393
	-0.581	0.941						
423E	1.053	1.137	1.244	-1.078	0.938	1.084	0.017	1.244
	-1.078	0.628						
424G	0.686	0.387	1.403	-1.375	1.093	1.220	0.025	1.403
	-1.375	0.491						
425T	0.686	0.299	1.403	-1.488	1.093	1.220	0.025	1.403
	-1.488	0.463						
426A	0.686	0.435	1.403	-1.674	1.093	1.220	0.025	1.403
	-1.674	0.456						
427R	0.825	1.010	1.346	-1.490	1.048	1.109	0.043	1.346
	-1.490	0.556						
428V	0.825	1.010	1.346	-1.067	1.048	1.109	0.043	1.346
	-1.067	0.616						
429F	0.990	1.107	1.477	-0.546	1.257	1.689	-0.024	1.689
	-0.546	0.850						
430D	1.122	1.281	1.907	-0.391	1.731	2.313	0.985	2.313
	-0.391	1.279						
431G	0.990	0.538	1.477	-0.777	1.257	1.689	-0.024	1.689
	-0.777	0.736						
432E	1.356	0.449	1.599	-1.502	1.267	1.687	-1.623	1.687
	-1.623	0.462						
433R	1.356	-0.126	1.580	-2.081	1.321	1.688	-1.439	1.688
	-2.081	0.329						
434A	1.356	-1.144	1.580	-2.100	1.321	1.688	-1.439	1.688
	-2.100	0.181						
435A	1.129	-0.568	1.589	-1.720	1.367	1.688	-2.450	1.688
	-2.450	0.148						
436L	0.054	-0.030	1.178	-1.209	1.011	1.094	-1.988	1.178
	-1.988	0.016						
437D	0.281	0.802	1.075	-1.014	0.902	1.069	-2.014	1.075
	-2.014	0.157						
438A	0.781	0.754	1.346	-0.910	1.221	1.558	-1.013	1.558
	-1.013	0.534						
439L	1.009	0.429	1.337	-1.009	1.175	1.558	-0.002	1.558
	-1.009	0.642						

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440E       1.919    1.125    1.617   -0.685    1.321    1.573   -0.397    1.919
-0.685    0.925
441D       0.781    0.453    1.206   -0.637    0.984    1.085   -0.066    1.206
-0.637    0.544
442G       0.977    0.542    1.403   -0.510    1.139    1.105    0.985    1.403
-0.510    0.806
443T       1.325    0.453    1.365   -0.880    1.121    1.102    1.139    1.365
-0.880    0.803
444I       1.192   -0.038    1.029   -1.174    0.711    0.502    1.165    1.192
-1.174    0.484
445T       1.192    0.191    1.029   -1.259    0.711    0.502    1.165    1.192
-1.259    0.504
446V       0.964   -0.396    1.038   -0.972    0.756    0.502    0.155    1.038
-0.972    0.292
447G       0.402   -0.625    0.720   -0.705    0.592    0.484    0.703    0.720
-0.705    0.224
448D       0.673   -0.438    0.739   -0.612    0.601    0.483    0.970    0.970
-0.612    0.345
449A      -0.161   -1.384    0.403   -1.073    0.428    0.465    1.251    1.251
-1.384   -0.010
450V       0.338   -0.809    0.954   -1.753    0.911    1.088    0.661    1.088
-1.753    0.199
451V      -0.142   -0.086    1.216   -2.282    1.194    1.108    0.993    1.216
-2.282    0.286
452I      -0.281    0.369    1.272   -2.641    1.239    1.218    0.976    1.272
-2.641    0.307
453R      -0.054    1.525    1.262   -2.488    1.194    1.218    1.986    1.986
-2.488    0.663
454Y       0.313    1.339    1.627   -2.079    1.476    1.236    1.617    1.627
-2.079    0.790
455E       0.907    2.373    2.197   -1.712    2.123    1.829    1.094    2.373
-1.712    1.259
456G       1.774    2.156    2.328   -1.365    2.096    1.827    0.772    2.328
-1.365    1.370
457P       1.868    2.156    1.889   -1.269    1.576    1.202    0.773    2.156
-1.269    1.171
458K       2.121    1.684    1.879   -1.225    1.613    1.202    0.661    2.121
-1.225    1.134
459G       1.989    1.666    1.543   -1.200    1.203    0.602    0.688    1.989
-1.200    0.927
460G       1.363    1.613    1.543   -1.155    1.294    0.620    0.632    1.613
-1.155    0.844
461P       1.495    0.872    1.730   -1.351    1.494    1.225    0.412    1.730
-1.351    0.840
462G       1.628    0.309    1.608   -1.696    1.221    1.230    0.320    1.628
-1.696    0.660
463M       1.002   -0.318    1.608   -2.291    1.312    1.247    0.265    1.608
-2.291    0.404
464R       0.060   -0.528    1.533   -2.712    1.367    1.253    0.699    1.533
-2.712    0.239
465E       0.060   -0.851    1.290   -2.942    1.093    1.234   -0.531    1.290
-2.942   -0.092
466M      -0.806   -0.799    1.160   -2.976    1.121    1.236   -0.209    1.236
-2.976   -0.182
467L      -0.212   -0.685    1.365   -2.757    1.230    1.238   -0.113    1.365
-2.757    0.010
468A      -0.117   -0.805    0.926   -2.500    0.711    0.614   -0.112    0.926
-2.500   -0.183
469I      -0.477    0.027    0.599   -2.147    0.346    0.014   -1.096    0.599
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      -2.147   -0.391
470T    -0.717    0.978    0.468   -1.938    0.282   -0.001   -0.719    0.978
      -1.938   -0.235
471G     0.225    0.487    1.001   -1.969    0.911    0.588   -1.089    1.001
      -1.969    0.022
472A     0.452    0.487    0.991   -2.244    0.866    0.588   -0.079    0.991
      -2.244    0.152
473I     1.091    0.283    1.132   -2.431    0.884    0.586   -1.410    1.132
      -2.431    0.019
474K     1.122    1.235    0.926   -2.486    0.683    0.566   -1.451    1.235
      -2.486    0.085
475G     0.180    1.235    0.851   -2.323    0.738    0.572   -1.016    1.235
      -2.323    0.034
476A     0.408    1.147    0.842   -2.132    0.692    0.572   -0.006    1.147
      -2.132    0.218
477G     1.274    1.050    1.431   -2.070    1.349    1.165   -0.262    1.431
      -2.070    0.562
478L     1.546    0.219    1.253   -1.795    1.030    1.059   -0.336    1.546
      -1.795    0.425
479G     0.952    0.219    1.141   -1.532    1.066    1.060    0.252    1.141
      -1.532    0.451
480K     0.237   -0.613    1.057   -1.109    1.075    1.066    1.697    1.697
      -1.109    0.487
481D    -0.705   -0.953    0.982   -1.020    1.130    1.071    2.132    2.132
      -1.020    0.377
482V    -0.705   -0.953    0.982   -1.264    1.130    1.071    2.132    2.132
      -1.264    0.342
483L    -0.736   -0.230    1.188   -1.696    1.330    1.091    2.172    2.172
      -1.696    0.446
484L    -0.465    0.788    1.010   -1.601    1.011    0.985    2.098    2.098
      -1.601    0.547
485L    -0.736    0.818    0.730   -1.250    0.647    0.496    2.108    2.108
      -1.250    0.402
486T    -0.237    1.878    1.281   -0.599    1.130    1.120    1.518    1.878
      -0.599    0.870
487D    -0.237    2.014    1.300   -0.278    1.075    1.118    1.334    2.014
      -0.278    0.904
488G     0.756    2.102    1.533   -0.255    1.221    1.133    1.059    2.102
      -0.255    1.079
489R     1.698    1.966    1.608   -0.375    1.166    1.128    0.624    1.966
      -0.375    1.116
490F     1.729    1.644    1.403   -0.330    0.966    1.108    0.584    1.729
      -0.330    1.015
491S     1.426    2.445    1.328   -0.296    0.802    0.639    0.634    2.445
      -0.296    0.997
492G     1.394    1.385    1.533   -0.268    1.002    0.659    0.674    1.533
      -0.268    0.911
493G     1.489    0.794    1.094   -0.393    0.483    0.034    0.675    1.489
      -0.393    0.597
494T     1.489    0.071    1.075   -0.598    0.537    0.035    0.859    1.489
      -0.598    0.496
495T     1.167    0.207    0.711   -0.730    0.291    0.033    1.321    1.321
      -0.730    0.429
496G     0.572   -0.194    0.599   -0.874    0.328    0.034    1.910    1.910
      -0.874    0.339
497L     0.572   -1.146    0.599   -0.961    0.328    0.034    1.910    1.910
      -1.146    0.191
498C     0.376   -0.941    0.561   -0.717    0.346    0.634    2.136    2.136
      -0.941    0.342
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499V	-0.458	-0.619	0.225	-0.510	0.173	0.616	2.417	2.417
-0.619	0.264							
500G	-0.686	0.053	0.234	-0.254	0.218	0.616	1.407	1.407
-0.686	0.227							
501H	0.029	-0.574	0.561	-0.200	0.483	0.630	1.192	1.192
-0.574	0.303							
502I	0.433	-0.761	1.103	-0.552	0.938	1.212	0.543	1.212
-0.761	0.417							
503A	0.800	0.103	1.225	-0.930	0.948	1.210	-1.055	1.225
-1.055	0.329							
504P	0.206	0.730	1.113	-1.236	0.984	1.212	-0.467	1.212
-1.236	0.363							
505E	0.705	0.998	1.225	-1.361	1.130	1.081	-0.743	1.225
-1.361	0.433							
506A	1.571	0.782	1.356	-1.158	1.103	1.079	-1.065	1.571
-1.158	0.524							
507V	1.799	0.457	1.346	-0.796	1.057	1.079	-0.054	1.799
-0.796	0.698							
508D	1.799	0.554	1.346	-0.507	1.057	1.079	-0.054	1.799
-0.507	0.753							
509G	0.800	-0.190	0.879	-0.477	0.674	0.481	0.294	0.879
-0.477	0.352							
510G	0.800	-1.021	0.879	-0.781	0.674	0.481	0.294	0.879
-1.021	0.189							
511P	0.452	-0.835	0.917	-1.274	0.692	0.485	0.140	0.917
-1.274	0.082							
512I	-0.762	-0.585	0.561	-1.883	0.382	0.001	0.584	0.584
-1.883	-0.243							
513A	-0.857	0.367	1.001	-2.299	0.902	0.626	0.583	1.001
-2.299	0.046							
514L	-0.774	0.906	1.309	-2.038	1.257	0.667	0.469	1.309
-2.038	0.257							
515L	-0.547	1.924	1.057	-1.581	0.938	0.648	0.250	1.924
-1.581	0.384							
516R	0.591	1.804	1.468	-0.364	1.276	1.135	-0.081	1.804
-0.364	0.833							
517N	0.724	1.804	1.898	0.389	1.750	1.760	0.928	1.898
0.389	1.322							
518G	0.800	0.990	1.842	0.595	1.722	1.756	0.815	1.842
0.595	1.217							
519D	1.647	0.902	2.356	-0.139	2.187	2.375	0.379	2.375
-0.139	1.387							
520R	0.800	0.267	1.842	-1.142	1.722	1.756	0.815	1.842
-1.142	0.866							
521I	0.990	-0.546	1.814	-1.962	1.731	2.204	0.919	2.204
-1.962	0.736							
522R	0.395	0.405	1.702	-1.940	1.768	2.206	1.508	2.206
-1.940	0.863							
523L	-0.104	0.405	1.431	-1.555	1.449	1.717	0.506	1.717
-1.555	0.550							
524D	-0.009	0.513	0.991	-1.111	0.929	1.092	0.508	1.092
-1.111	0.416							
525V	0.762	-0.230	1.561	-1.117	1.422	1.715	0.185	1.715
-1.117	0.614							
526A	0.263	0.405	1.010	-1.533	0.938	1.092	0.775	1.092
-1.533	0.421							
527G	0.263	0.309	1.010	-1.947	0.938	1.092	0.775	1.092
-1.947	0.349							
528R	0.263	-0.522	1.010	-2.024	0.938	1.092	0.775	1.092

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-2.024    0.219
529V       0.263   -1.336    1.010   -1.727    0.938    1.092    0.775    1.092
-1.727    0.145
530L      -0.452   -0.701    0.926   -1.252    0.948    1.097    2.220    2.220
-1.252    0.398
531D      -0.680   -0.138    0.935   -1.065    0.993    1.097    1.209    1.209
-1.065    0.336
532V      -0.313   -0.677    0.776   -0.897    0.838    0.962    1.201    1.201
-0.897    0.270
533L       0.054   -0.005    1.141   -0.819    1.121    0.979    0.832    1.141
-0.819    0.472
534A       0.768    0.025    1.225   -0.435    1.112    0.974   -0.613    1.225
-0.613    0.436
535D       0.629    0.025    1.281   -0.240    1.157    1.084   -0.630    1.281
-0.630    0.472
536P       0.281    0.341    1.337   -0.176    1.121    1.087   -0.968    1.337
-0.968    0.432
537A       0.996    0.796    1.421   -0.622    1.112    1.082   -2.413    1.421
-2.413    0.339
538E       1.274    1.287    1.571   -0.821    1.267    1.102   -1.243    1.571
-1.243    0.634
539F       0.907    1.203    1.730   -0.982    1.422    1.237   -1.235    1.730
-1.235    0.612
540A       1.154    1.916    1.814   -0.725    1.522    1.261   -1.291    1.916
-1.291    0.807
541S       1.401    1.742    2.141   -0.563    1.895    1.303   -0.118    2.141
-0.563    1.114
542R       1.540    1.742    2.085   -0.260    1.850    1.193   -0.101    2.085
-0.260    1.150
543Q       1.540    1.287    2.085   -0.045    1.850    1.193   -0.101    2.085
-0.101    1.115
544Q       1.818    1.155    2.234    0.603    2.005    1.213    1.069    2.234
0.603    1.442
545D       1.540    1.022    2.328    1.015    2.123    1.211    1.130    2.328
1.015    1.481
546F       1.407    0.842    2.141    1.451    1.923    0.606    1.350    2.141
0.606    1.389
547S       1.160    1.830    2.057    1.481    1.823    0.582    1.407    2.057
0.582    1.477
548P       0.914    0.568    1.973    1.436    1.722    0.559    1.464    1.973
0.559    1.234
549P       0.547    0.700    2.132    1.018    1.877    0.695    1.472    2.132
0.547    1.206
550P       1.009    0.832    2.449    0.590    2.160    0.710    1.553    2.449
0.590    1.329
551P       0.926    1.101    2.496   -0.037    2.160    0.710    1.434    2.496
-0.037    1.256
552R       1.122    0.646    2.449   -0.455    2.041    0.711    1.254    2.449
-0.455    1.110
553Y       1.350   -0.372    2.197   -0.668    1.722    0.692    1.035    2.197
-0.668    0.851
554T       0.983    0.890    1.832   -0.703    1.440    0.674    1.403    1.832
-0.703    0.931
555T       0.269    1.231    1.505   -0.912    1.175    0.661    1.619    1.619
-0.912    0.793
556G       0.414    0.333    1.225   -0.990    0.856    0.056    1.779    1.779
-0.990    0.525
557V       0.895   -0.390    1.421   -1.201    1.257    0.631    1.512    1.512
-1.201    0.589
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558L         0.446     0.538     1.477    -1.107     1.339     0.631     1.803     1.803
-1.107     0.733
559S        -0.117     0.538     1.160    -1.075     1.175     0.612     2.351     2.351
-1.075     0.664
560K        -0.117    -0.414     1.617    -1.174     1.859     1.207     2.416     2.416
-1.174     0.771
561Y        -0.465    -0.390     1.655    -1.577     1.877     1.211     2.262     2.262
-1.577     0.653
562V        -0.117     0.872     1.617    -1.945     1.859     1.207     2.416     2.416
-1.945     0.844
563K        -0.117     0.968     1.617    -2.070     1.859     1.207     2.416     2.416
-2.070     0.840
564L        -0.066     0.137     1.318    -1.526     1.376     0.632     2.511     2.511
-1.526     0.626
565V         0.187     0.245     1.066    -0.777     1.139     0.613     1.169     1.169
-0.777     0.520
566S         0.553     0.968     1.188    -0.107     1.148     0.612    -0.430     1.188
-0.430     0.562
567S        -0.041     0.113     0.618    -0.041     0.501     0.019     0.094     0.618
-0.041     0.180
568A         0.901    -0.839     0.692    -0.568     0.446     0.013    -0.341     0.901
-0.839     0.044
569A         1.268    -0.803     0.814    -1.276     0.455     0.012    -1.940     1.268
-1.940    -0.210
570V         0.623    -0.176     0.543    -1.816     0.291    -0.007    -1.511     0.623
-1.816    -0.293
571G         0.300     0.175     0.178    -1.863     0.045    -0.009    -1.049     0.300
-1.863    -0.317
572A         0.528    -0.198     0.169    -1.608    -0.000    -0.009    -0.038     0.528
-1.608    -0.165
573V         0.395     0.057    -0.289    -1.196     0.319     0.051    -0.038     0.395
-1.196    -0.100
574C         0.629     0.407    -0.625    -0.838     0.647     0.109    -1.637     0.647
-1.637    -0.187
575G         0.269     0.626    -1.074    -0.589     1.011     0.169    -2.647     1.011
-2.647    -0.319
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[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	¹MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG⁵⁷⁵
Hydrophilicity	¹MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG⁵⁷⁵
Flexibility	¹MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG⁵⁷⁵
Accessibility	¹MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG⁵⁷⁵
Turns	¹MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW

	NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG^{575}
Exposed Surface	^{1}MPQTTDEAASVSTVA<u>DIKPRSRDV</u>TDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEGMHFSLVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA P<u>PATDRRRDG</u>FARRSGQAVVELLRRGITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDAVVIRYEGPKGGPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALLRNGDRIRLDVAGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG^{575}
Polarity	^{1}MPQTTDEAASVSTVA<u>DIKPRSRDVTD</u>GLEKAAARGMLRA<u>VGMDDEDFAKP</u>QIGVASSW NEITPCNLSLDRLANAVKEGVFSAGGYPLEFGTISVSDGIS<u>MGHEGMHFS</u>LVSREVIADSVE VVMQAERLDGSVLLAGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKL<u>SDGSERDV</u>TI IDAFEAVGACSRGLMSRA<u>DVDAIER</u>AICPGEGACGGMYTANTMASAAEALGMSLPGSAA P<u>PATDRRRDGFARR</u>SGQA<u>VVELLRRGITARDILTKEAFENA</u>IAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLAD<u>VKPFGRHV</u>MSDVDHIGGVPVVMKALLDAGLLHGDC LTVTGHTMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTA<u>RVFDGER</u>AALDALEDGTITVGDAVV<u>IRYEGPKG</u>GPGMREMLAITGAIKGAGLGKDV LLLTDGRFSGGTTGLCVGHIAPEAVDGGPIALL<u>RNGDRIRLDV</u>AGRVLDVLADPAEFASRQ QDFSPPPPRYTTGVLSKYVKLVSSAAVGAVCG^{575}
Antigenic Propensity	^{1}MPQTTDEAASVSTVADIKPRSRDVTDGLEKAAARGMLRAVGMDDEDFAKPQIGVASSW NEI<u>TPCNLSLD</u>RLANAVKEGVFSAGGYPLEFGTISVSDGISMGHEG<u>MHFSLVSREVIA</u><u>DSVE</u> <u>VVMQ</u>AER<u>LDGSVLL</u>AGCDKSLPGMLMAAARLDLAAVFLYAGSILPGRAKLSDGSERDVTI IDAFEAVGACSRGLMSRADVDAIERAICPGEGACGGMYTANTMASAAEALGMSLPGSAA PPATDRRRDGFARRSGQA<u>VVELLRR</u>GITARDILTKEAFENAIAVVMAFGGSTNAVLHLLAIA HEANVALSLQDFSRIGSGVPHLADVKPFGRHVMSD<u>VDHIGGVPVVMK</u>ALLDA<u>GLLHGDC</u> <u>LTVTGH</u>TMAENLAAITPPDPDGKVLRALANPIHPSGGITILHGSLAPEGAVVKTAGFDSDVF EGTARVFDGERAALDALEDGTITVGDA<u>VVIRYEG</u>PKGGPGMREMLAITGAIKGAG<u>LGKDV</u> <u>LLLTDG</u>RFSG<u>GTTGLCVGHI</u>APEAVDGGPIALLRNGDRIRLDVA<u>GRVLDVL</u>ADPAEFASRQ QDFSPPPPRYTT<u>GVLSKYVKLVSS</u>AAVGAVCG^{575}