#

# OPAL <Release 1.0 September 2017>

#

# Column Data type

# 1 residue index

# 2 residue

# 3 OPAL scores

# 4 PROMIS scores

# 5 OPAL scores binarized to represent MoRF

#

1.0 A 0.570937 0.633717 0

2.0 P 0.581558 0.637205 1

3.0 S 0.587669 0.639464 1

4.0 S 0.594826 0.639895 1

5.0 G 0.602474 0.639895 1

6.0 R 0.607936 0.639895 1

7.0 G 0.614036 0.640925 1

8.0 G 0.615984 0.640925 1

9.0 N 0.617409 0.640925 1

10.0 Y 0.622503 0.640925 1

11.0 P 0.623714 0.640925 1

12.0 V 0.624225 0.640925 1

13.0 Q 0.624498 0.640925 1

14.0 Q 0.624498 0.640925 1

15.0 I 0.624498 0.639895 1

16.0 G 0.624498 0.638788 1

17.0 G 0.624382 0.638325 1

18.0 N 0.623869 0.637205 1

19.0 Y 0.623524 0.637028 1

20.0 V 0.620478 0.630676 1

21.0 H 0.618930 0.629260 1

22.0 L 0.616794 0.622982 1

23.0 P 0.611046 0.622780 1

24.0 L 0.606178 0.616026 1

25.0 S 0.597784 0.614571 1

26.0 P 0.593808 0.613830 1

27.0 R 0.586674 0.610763 1

28.0 T 0.579170 0.610748 0

29.0 L 0.575686 0.607203 0

30.0 N 0.571536 0.606214 0

31.0 A 0.570110 0.598266 0

32.0 W 0.566487 0.588767 0

33.0 V 0.565531 0.584945 0

34.0 K 0.563597 0.577207 0

35.0 L 0.560296 0.572648 0

36.0 I 0.558573 0.570434 0

37.0 E 0.550251 0.566494 0

38.0 E 0.545906 0.554243 0

39.0 K 0.543408 0.547939 0

40.0 K 0.536153 0.545751 0

41.0 F 0.525317 0.539979 0

42.0 G 0.518202 0.536918 0

43.0 A 0.516231 0.533501 0

44.0 E 0.508580 0.534698 0

45.0 V 0.503130 0.535766 0

46.0 V 0.498195 0.531984 0

47.0 P 0.498160 0.530972 0

48.0 G 0.497926 0.529745 0

49.0 F 0.493886 0.528236 0

50.0 Q 0.493028 0.524856 0

51.0 A 0.492651 0.523350 0

52.0 L 0.492109 0.522421 0

53.0 S 0.491197 0.520344 0

54.0 E 0.490654 0.514223 0

55.0 G 0.491995 0.512574 0

56.0 C 0.492462 0.510784 0

57.0 T 0.492696 0.507129 0

58.0 P 0.494201 0.504059 0

59.0 Y 0.494201 0.499945 0

60.0 D 0.494201 0.499205 0

61.0 I 0.494201 0.499426 0

62.0 N 0.493903 0.496880 0

63.0 Q 0.493348 0.495182 0

64.0 M 0.493062 0.495177 0

65.0 L 0.491922 0.494586 0

66.0 N 0.488782 0.491467 0

67.0 C 0.488495 0.490455 0

68.0 V 0.489913 0.489088 0

69.0 G 0.499030 0.486916 0

70.0 D 0.501266 0.480981 0

71.0 H 0.510698 0.480042 0

72.0 Q 0.524990 0.480981 0

73.0 A 0.536105 0.480981 0

74.0 A 0.543015 0.480937 0

75.0 M 0.549033 0.480641 0

76.0 Q 0.559113 0.479930 0

77.0 I 0.561679 0.479301 0

78.0 R 0.562523 0.478022 0

79.0 D 0.563609 0.477393 0

80.0 I 0.563648 0.476696 0

81.0 I 0.563648 0.475873 0

82.0 N 0.563648 0.474436 0

83.0 E 0.563609 0.474973 0

84.0 E 0.563332 0.474151 0

85.0 A 0.562516 0.472024 0

86.0 A 0.561638 0.471884 0

87.0 D 0.561430 0.471922 0

88.0 W 0.560741 0.472005 0

89.0 D 0.558601 0.473512 0

90.0 L 0.556760 0.473996 0

91.0 Q 0.556093 0.478179 0

92.0 H 0.553409 0.479901 0

93.0 P 0.548031 0.480612 0

94.0 Q 0.540151 0.481722 0

95.0 P 0.534472 0.482079 0

96.0 A 0.528742 0.481864 0

97.0 P 0.519010 0.482440 0

98.0 Q 0.508867 0.483499 0

99.0 Q 0.504580 0.482953 0

100.0 G 0.502159 0.482257 0

101.0 Q 0.496272 0.482205 0

102.0 L 0.496779 0.482287 0

103.0 R 0.498521 0.485863 0

104.0 E 0.500258 0.490075 0

105.0 P 0.501611 0.493552 0

106.0 S 0.503371 0.498321 0

107.0 G 0.504622 0.501060 0

108.0 S 0.505874 0.504134 0

109.0 D 0.509327 0.507925 0

110.0 I 0.514047 0.510192 0

111.0 A 0.517045 0.512931 0

112.0 G 0.527147 0.516067 0

113.0 T 0.539915 0.517384 0

114.0 T 0.551458 0.521269 0

115.0 S 0.561781 0.522774 0

116.0 S 0.579348 0.524743 0

117.0 V 0.595002 0.527368 1

118.0 D 0.603179 0.530959 1

119.0 E 0.613103 0.534135 1

120.0 Q 0.620144 0.534135 1

121.0 I 0.626382 0.535321 1

122.0 Q 0.627950 0.534935 1

123.0 W 0.629527 0.537733 1

124.0 M 0.629527 0.541883 1

125.0 Y 0.629527 0.544263 1

126.0 R 0.629527 0.547776 1

127.0 Q 0.628851 0.550514 1

128.0 Q 0.628851 0.553066 1

129.0 N 0.640711 0.555075 1

130.0 P 0.648018 0.557341 1

131.0 I 0.656717 0.560081 1

132.0 P 0.676203 0.571417 1

133.0 V 0.692062 0.584351 1

134.0 G 0.699465 0.590059 1

135.0 N 0.707373 0.592591 1

136.0 I 0.716916 0.596636 1

137.0 Y 0.718088 0.600544 1

138.0 R 0.719283 0.605323 1

139.0 R 0.719283 0.609289 1

140.0 W 0.719283 0.610067 1

141.0 I 0.719283 0.612934 1

142.0 Q 0.712210 0.613416 1

143.0 L 0.710203 0.613797 1

144.0 G 0.701390 0.613868 1

145.0 L 0.691550 0.614400 1

146.0 Q 0.679390 0.615162 1

147.0 K 0.669172 0.615162 1

148.0 C 0.660090 0.615162 1

149.0 V 0.648892 0.615162 1

150.0 R 0.644189 0.614400 1

151.0 M 0.636542 0.614400 1

152.0 Y 0.635497 0.614400 1

153.0 N 0.632551 0.614400 1

154.0 P 0.631468 0.613868 1

155.0 T 0.630833 0.613465 1

156.0 N 0.630133 0.613465 1

157.0 I 0.628846 0.612934 1

158.0 L 0.624390 0.604304 1

159.0 D 0.621191 0.602811 1

160.0 V 0.611700 0.602811 1

161.0 K 0.600503 0.601325 1

162.0 Q 0.596067 0.600797 1

163.0 G 0.578962 0.600539 0

164.0 P 0.560157 0.598198 0

165.0 K 0.549535 0.595045 0

166.0 E 0.538715 0.593251 0

167.0 P 0.518952 0.587532 0

168.0 F 0.502929 0.571739 0

**Supplementary Figure.S2**: A screenshot to show the output of OPAL for a sample protein sequence.