1 M 0.494 \*

2 A 0.494 \*

3 S 0.666

4 K 0.365

5 P 0.827

6 Q 0.641

7 P 0.830

8 I 0.713

9 A 0.739

10 A 0.754

11 A 0.754

12 N 0.994

13 W 0.876

14 K 0.966

15 C 0.639

16 N 0.994

17 G 0.810

18 S 0.530

19 E 0.515

20 S 0.372

21 L 0.482

22 L 0.514

23 V 0.270

24 P 0.597

25 L 0.656

26 I 0.557

27 E 0.393

28 T 0.595

29 L 0.826

30 N 0.885

31 A 0.549

32 A 0.676

33 T 0.302

34 F 0.364

35 D 0.553

36 H 0.348

37 D 0.421

38 : 0.494 \*

39 : 0.494 \*

40 V 0.684

41 Q 0.623

42 C 0.795

43 V 0.930

44 V 0.563

45 A 0.557

46 P 0.894

47 T 0.855

48 F 0.510

49 L 0.294

50 H 0.771

51 I 0.686

52 P 0.564

53 M 0.492

54 T 0.450

55 K 0.582

56 A 0.505

57 R 0.399

58 L 0.809

59 T 0.494 \*

60 N 0.440

61 P 0.551

62 K 0.421

63 F 0.497

64 Q 0.292

65 I 0.549

66 A 0.623

67 A 0.793

68 Q 0.993

69 N 0.994

70 A 0.649

71 I 0.666

72 : 0.506

73 T 0.465

74 R 0.380

75 S 0.446

76 G 0.951

77 A 0.905

78 F 1.006

79 T 0.984

80 G 0.951

81 E 0.960

82 V 0.478

83 S 0.840

84 L 0.469

85 Q 0.375

86 I 0.744

87 L 0.557

88 K 0.848

89 D 0.878

90 Y 0.415

91 G 0.951

92 I 0.529

93 S 0.368

94 W 1.013

95 V 0.930

96 V 0.676

97 L 0.959

98 G 0.951

99 H 1.017

100 S 0.977

101 E 0.960

102 R 1.000

103 R 1.000

104 L 0.522

105 Y 0.463

106 : 0.494 \*

107 : 0.494 \*

108 Y 0.650

109 G 0.682

110 E 0.960

111 T 0.700

112 N 0.765

113 E 0.484

114 I 0.508

115 V 0.726

116 A 0.643

117 E 0.499

118 K 0.966

119 V 0.492

120 A 0.465

121 Q 0.569

122 A 0.905

123 C 0.824

124 A 0.381

125 : 0.494 \*

126 A 0.491

127 G 0.813

128 F 0.566

129 H 0.573

130 V 0.930

131 I 0.849

132 V 0.401

133 C 1.018

134 V 0.726

135 G 0.951

136 E 0.960

137 T 0.598

138 N 0.819

139 E 0.782

140 E 0.850

141 R 0.856

142 E 0.816

143 A 0.766

144 G 0.951

145 R 0.387

146 T 0.984

147 A 0.283

148 A 0.454

149 V 0.930

150 V 0.692

151 L 0.440

152 T 0.562

153 Q 0.993

154 L 0.623

155 A 0.424

156 A 0.712

157 V 0.491

158 A 0.507

159 Q 0.569

160 K 0.511

161 L 0.458

162 S 0.494 \*

163 K 0.494 \*

164 E 0.568

165 A 0.718

166 W 1.013

167 S 0.617

168 R 0.558

169 V 0.815

170 V 0.930

171 I 0.518

172 A 0.905

173 Y 1.011

174 E 0.960

175 P 0.997

176 V 0.930

177 W 1.013

178 A 0.905

179 I 0.970

180 G 0.951

181 T 0.984

182 G 0.951

183 K 0.718

184 V 0.535

185 A 0.905

186 T 0.870

187 P 0.880

188 Q 0.514

189 Q 0.853

190 A 0.905

191 Q 0.852

192 E 0.689

193 V 0.788

194 H 1.017

195 E 0.641

196 L 0.351

197 L 0.592

198 R 1.000

199 R 0.319

200 W 0.792

201 V 0.808

202 R 0.476

203 S 0.525

204 K 0.690

205 L 0.471

206 G 0.656

207 T 0.532

208 D 0.319

209 I 0.633

210 A 0.796

211 A 0.405

212 Q 0.575

213 L 0.680

214 R 1.000

215 I 0.970

216 L 0.586

217 Y 1.011

218 G 0.951

219 G 0.951

220 S 0.977

221 V 0.776

222 T 0.711

223 A 0.521

224 K 0.518

225 N 0.814

226 A 0.650

227 R 0.429

228 T 0.596

229 L 0.823

230 Y 0.520

231 Q 0.427

232 M 0.601

233 R 0.707

234 D 0.852

235 I 0.638

236 N 0.847

237 G 0.951

238 F 1.006

239 L 0.959

240 V 0.930

241 G 0.951

242 G 0.951

243 A 0.905

244 S 0.977

245 L 0.829

246 K 0.966

247 P 0.997

248 E 0.713

249 F 1.006

250 V 0.678

251 E 0.628

252 I 0.970

253 I 0.824

254 E 0.714

255 A 0.663

256 T 0.457

257 K 0.451

258 : 0.494 \*

259 : 0.494 \*

260 : 0.494 \*

261 : 0.494 \*

262 : 0.494 \*

263 : 0.494 \*

264 : 0.494 \*

\* gap fraction no less than 0.50; conservation set to M-S

M: mean; S: standard deviation

AL2CO parameters are:

Input alignment file: QUERY\_gQAmGd

Output conservation file: QUERY\_gQAmGd.csv.txt

Output alignment file with index: QUERY\_gQAmGd.csv.aln; Block size: 70

Weighting scheme: weighted by the modified method of Henikoff & Henikoff

Conservation calculation method: variance-based

Window size: 1

Conservation not normalized

Gap fraction to suppress calculation: 0.50