Probabilities

Each row corresponds to a position in the reference protein. Below each position is the fraction of sequences that contain one of the basic amino aci Each column corresponds to one of the twenty amino acids.

Each entry contains the score at a particular position (row) for an amino acid substitution (column). Substitutions predicted to be intolerant are hi

F G H I K L D E N R pos 9R 1.00 0.43 0.05 0.25 0.35 0.06 0.28 0.13 0.10 0.69 0.18 0.06 0.30 0.18 0.31 1.00 0.79 0.42 0.16 0.03 0.09 11E 1.000.540.050.691.000.060.590.130.080.430.140.050.460.230.340.230.450.270.140.020.08 12K 1.000.050.000.030.080.010.030.030.021.000.030.010.040.030.300.140.040.040.020.000.01 15T 1.000.750.060.400.630.060.290.110.171.000.250.090.350.230.410.450.640.910.290.020.07 $\textbf{18R} \ \textbf{1.00} \ \textbf{0.05} \ \textbf{0.00} \ \textbf{0.02} \ \textbf{0.06} \ \textbf{0.010.03} \ \textbf{0.03} \ \textbf{0.020.800.040.010.040.030.091.000.040.050.020.010.02}$ 20K 1.000.050.000.020.060.010.030.030.020.810.040.010.040.030.091.000.040.050.020.010.02 22K 1.000.050.000.020.060.010.030.030.020.810.040.010.040.030.091.000.040.050.020.010.02 $\textbf{246} \ \ \textbf{1.00} \ \ \textbf{0.00} \ \ \textbf{0.0$ 25G 1.000.170.020.070.040.011.000.020.010.040.020.010.070.050.030.030.340.050.030.000.01 pos A C D E F G H I K L M N P O R S T V W $\textbf{28R} \ \textbf{1.00} \ \textbf{0.55} \ \textbf{0.08} \ \textbf{0.36} \ \textbf{0.63} \ \textbf{0.21} \ \textbf{0.31} \ \textbf{0.26} \ \textbf{0.211} \ \textbf{1.000} \ \textbf{0.370} \ \textbf{0.13} \ \textbf{0.380} \ \textbf{0.23} \ \textbf{0.520} \ \textbf{0.750} \ \textbf{0.500} \ \textbf{0.440} \ \textbf{0.300} \ \textbf{0.070} \ \textbf{0.300} \$ 30M 1.000.240.030.110.310.060.150.140.101.000.200.170.190.140.370.820.210.220.130.030.10 31L 1.000.020.000.000.010.050.000.000.090.011.000.250.000.010.010.010.010.010.050.010.01 $\textbf{33H} \ \textbf{1.00} \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 1.00 \ 0.$ 34L 1.000.020.010.000.010.050.010.000.340.011.000.060.010.010.010.010.010.020.110.010.01 $\textbf{36W} \ \textbf{1.00} \ 0.000 \ 0$ 46L 1.000.040.010.010.010.050.010.010.180.011.000.060.010.010.010.010.010.010.030.370.010.01 47D 1.000.030.010.340.050.010.080.030.000.040.010.001.000.020.030.020.070.030.010.000.01 A C D E F G H I K L M N P Q R S T V W $\textbf{51L} \ \ \textbf{1.00} \ \textbf{0.00} \ \textbf{0$ $\textbf{53T} \ \textbf{1.00} \ 0.00 \ 0.$ $\textbf{545} \ \ \textbf{1.001}.000 \ \textbf{0.020}.0440.050.010.120.010.020.040.030.010.040.060.030.030.680.090.050.000.01$ 55E 1.000.280.020.601.000.030.270.080.050.310.090.030.280.140.270.140.260.180.080.010.04 $\textbf{56G} \ \ \textbf{1.00} \ \ \textbf{0.00} \ \ \textbf{0.0$ 57V 1.000.131.000.010.020.030.030.010.130.020.100.030.020.030.020.020.040.080.480.010.02 58N 1.000.200.020.140.270.020.110.070.061.000.110.040.410.090.480.640.190.170.090.010.03 59K 1.000.100.010.080.170.020.060.050.030.980.070.020.090.061.000.290.090.090.050.010.03