**Figure S11.** **Temporal changes of the eigenvalues and the eigenvectors of the log-odds matrix log-$O(\langle S \rangle(t))$ calculated by the ML-91+ model fitted to JTT as a function of sequence identity.** In (A), the solid, the broken, and the dotted lines show the temporal changes of the first ($\lambda_1$), the second ($\lambda_2$), and the third ($\lambda_3$) principal eigenvalues, respectively. The inner products of the eigenvectors with the eigenvectors of the JTT 20-PAM log-odds matrix, $\boldsymbol{V}_i(t) \cdot \boldsymbol{V}_j^{\mathrm{JTT}}$(20-PAM), are shown in (B) for the first principal eigenvector ($i = 1$), in (C) for the second principal eigenvector ($i = 2$), and in (D) for the third principal eigenvector ($i = 3$), by solid lines for $j = 1$, by broken lines for $j = 2$, and by dotted lines for $j = 3$.