Supplementary Material







Figure S2. Predicted versus empirical nucleotide frequencies for all of the non-SARS-CoV-2 viruses shown in Figure 3C. The empirical frequencies just represent the nucleotide identities at four-fold degenerate sites, and the predicted frequencies represent the nucleotide frequencies expected based on the mutation rates estimated for these four-fold degenerate sites.



Figure S3: The frequencies of nucleotides at four-fold degenerate sites are nearly identical among the clade founder sequences. Note the high similarity among nucleotide frequencies at these sites is unsurprising as the pairwise nucleotide identity of current SARS-CoV-2 variants is very high (e.g., 99.8% full-genome nucleotide identity between Wuhan-Hu-1 and Omicron BA.5).