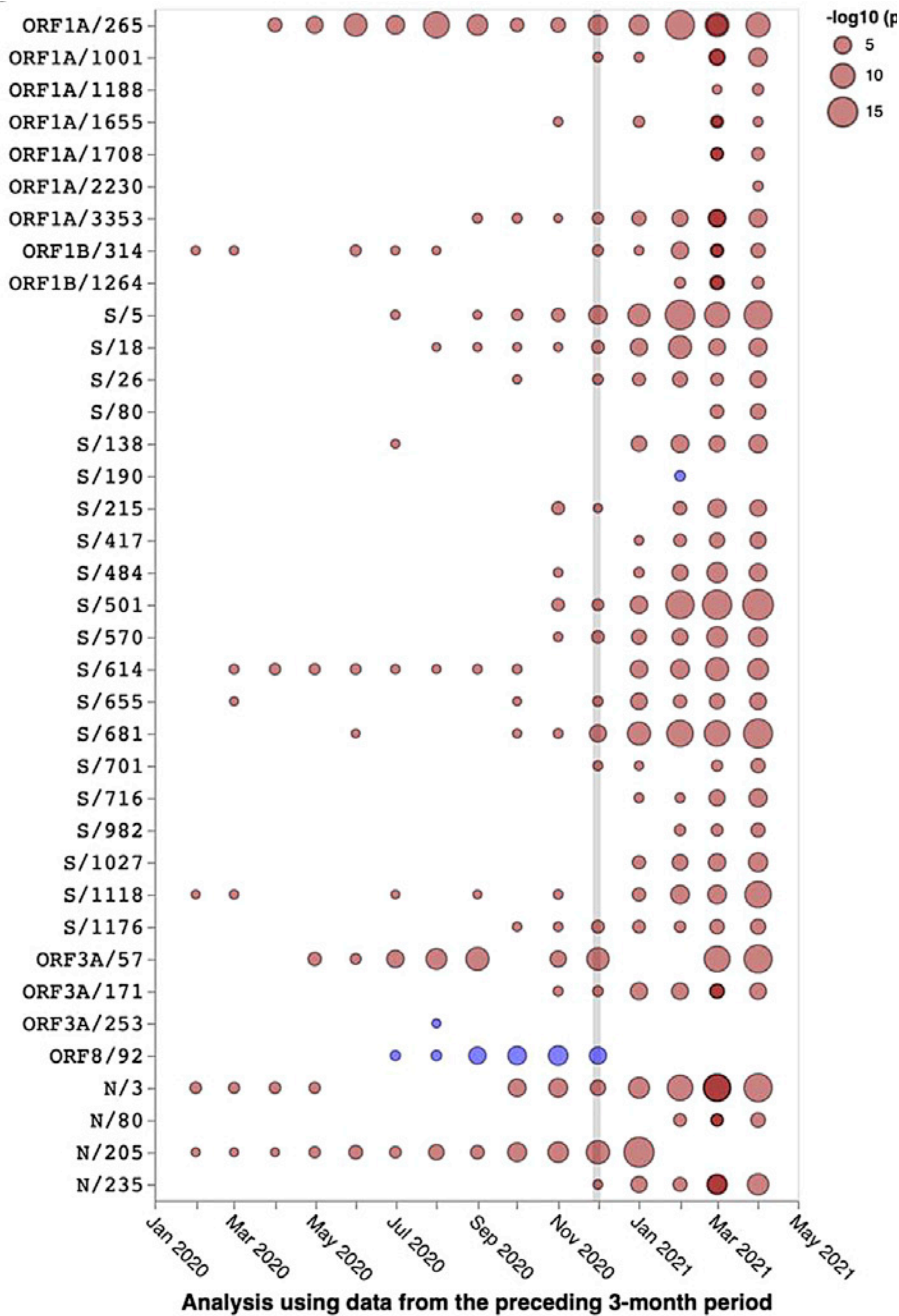
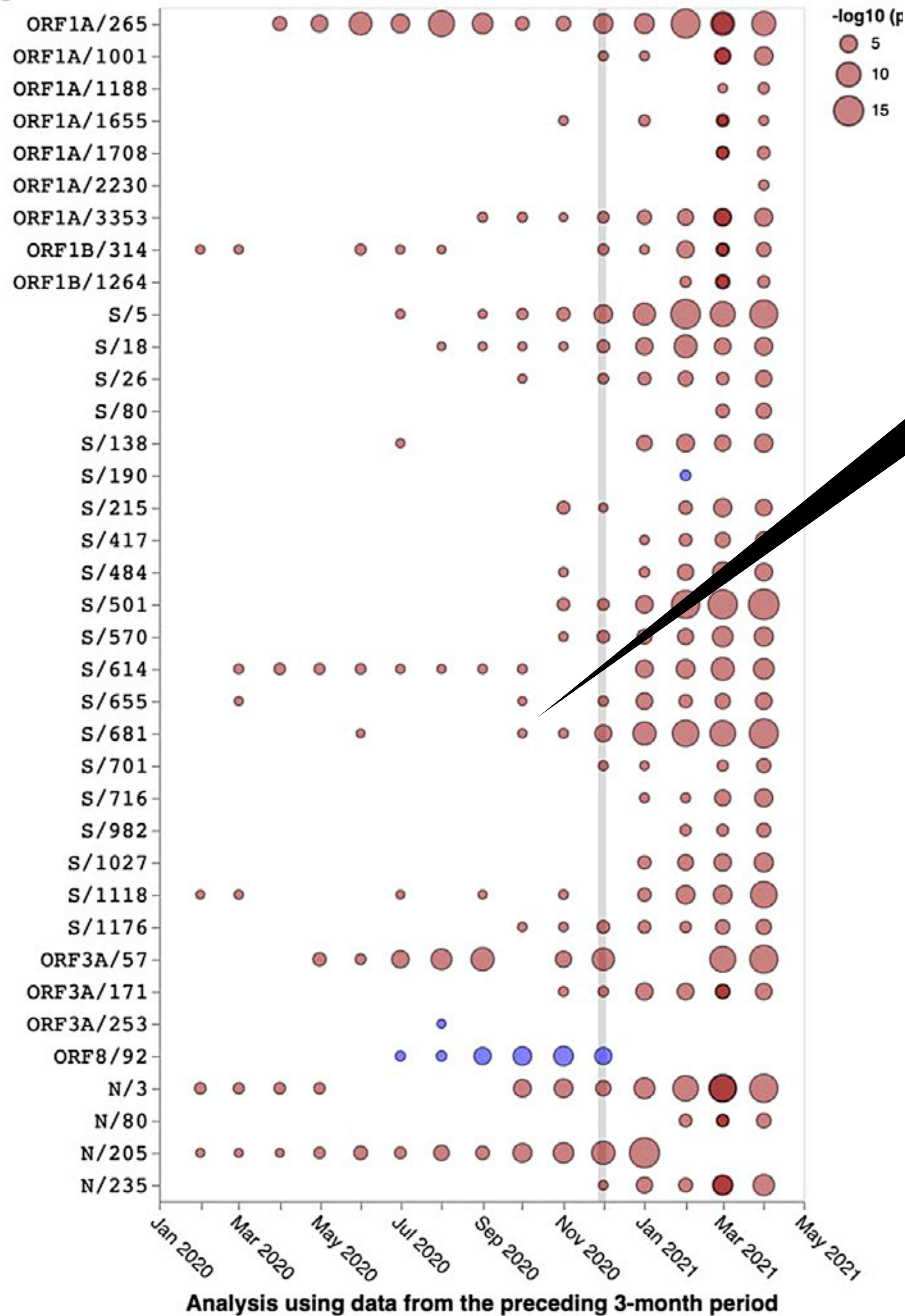


Martinez, 2021, Gel 184, 5189-5200 The emerging evolution of the SARS-CoV-2 N501Y lineage



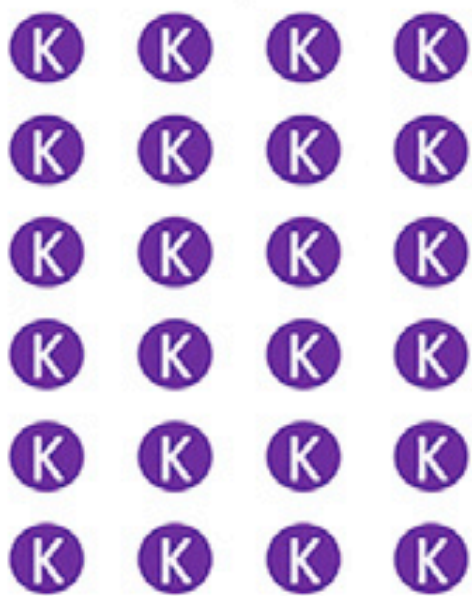
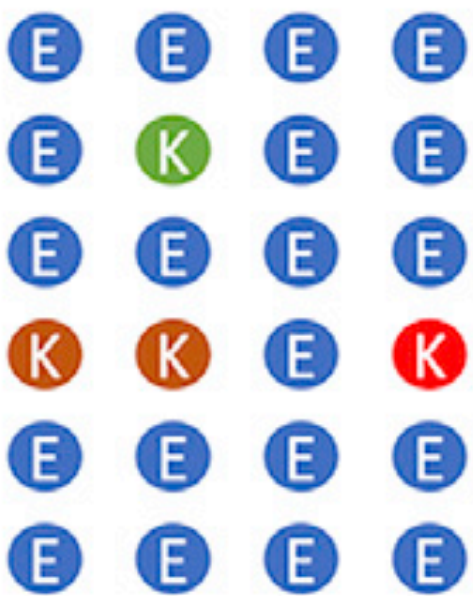


Many “clade-defining” mutations were detectably
selected BEFORE they became clade defining

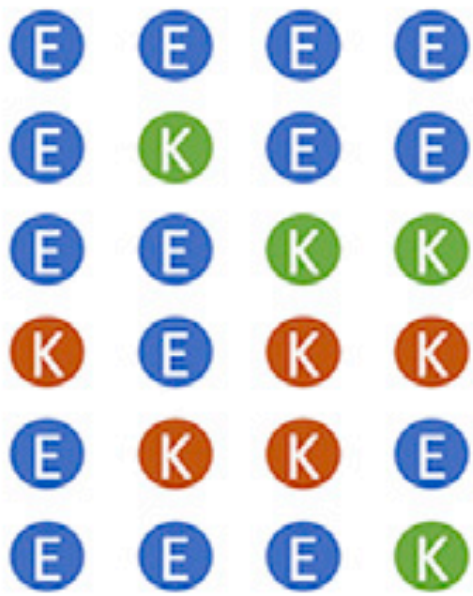


Many “clade-defining” mutations were detectably selected BEFORE they became clade defining

Selective shift,
501Y VOC



March 2021
E to K associated positive selection
signal detectable even when only
considering alpha sequences



June 2021
K more than doubles in frequency between March and June 2021, reiterating that K
provides a fitness advantage: K at this site is added to the 501Y meta-signature
along with various mutations at 34 other similarly evolving genome sites