

**Table S1.** All inferred deletions in the ORF7a region, and associated quality control metrics, of 4,018,216 Delta SARS-CoV-2 clade GK genomes downloaded from GISAID on 2022-05-31.

Note: Table is too large for this document and can be accessed from:

- doi: 10.6084/m9.figshare.21012535

**Table S2.** Inferred binding sites between SARS-CoV-2 ORF7a and human CD14. The inferences were made using HDOCK based on the ORF7a sequence from the Wuhan-Hu-1 reference genome and from the Delta-ORF7a<sup>Δ17del</sup> variant.

Genome	ORF7a Site	Distance ( Å )	CD14
NC_045512.2 (Wuhan-Hu-1) E16		2.7	R300
NC_045512.2 (Wuhan-Hu-1) Y20		3	N282
NC_045512.2 (Wuhan-Hu-1) Y20		3.1	D303
NC_045512.2 (Wuhan-Hu-1) S81		2.2	D203
NC_045512.2 (Wuhan-Hu-1) R25		2.7	D203
NC_045512.2 (Wuhan-Hu-1) T57		2.6	E120
NC_045512.2 (Wuhan-Hu-1) T57		2.7	E120
NC_045512.2 (Wuhan-Hu-1) T28		3.1	R93
NC_045512.2 (Wuhan-Hu-1) T28		2.7	E56
NC_045512.2 (Wuhan-Hu-1) Q76		3	S280
NC_045512.2 (Wuhan-Hu-1) Q62		3.3	N226
NC_045512.2 (Wuhan-Hu-1) R78		3.3	S257
NC_045512.2 (Wuhan-Hu-1) N43		2.7	T197
NC_045512.2 (Wuhan-Hu-1) S60		3.1	D255
Delta-ORF7a <sup>Δ17del</sup> G42		2.6	R300
Delta-ORF7a <sup>Δ17del</sup> R25		3.5	D303
Delta-ORF7a <sup>Δ17del</sup> R25		2.3	S284
Delta-ORF7a <sup>Δ17del</sup> T57		2.9	D255
Delta-ORF7a <sup>Δ17del</sup> D51		3	R92
Delta-ORF7a <sup>Δ17del</sup> T28		2.7	R148
Delta-ORF7a <sup>Δ17del</sup> T28		3.2	R148