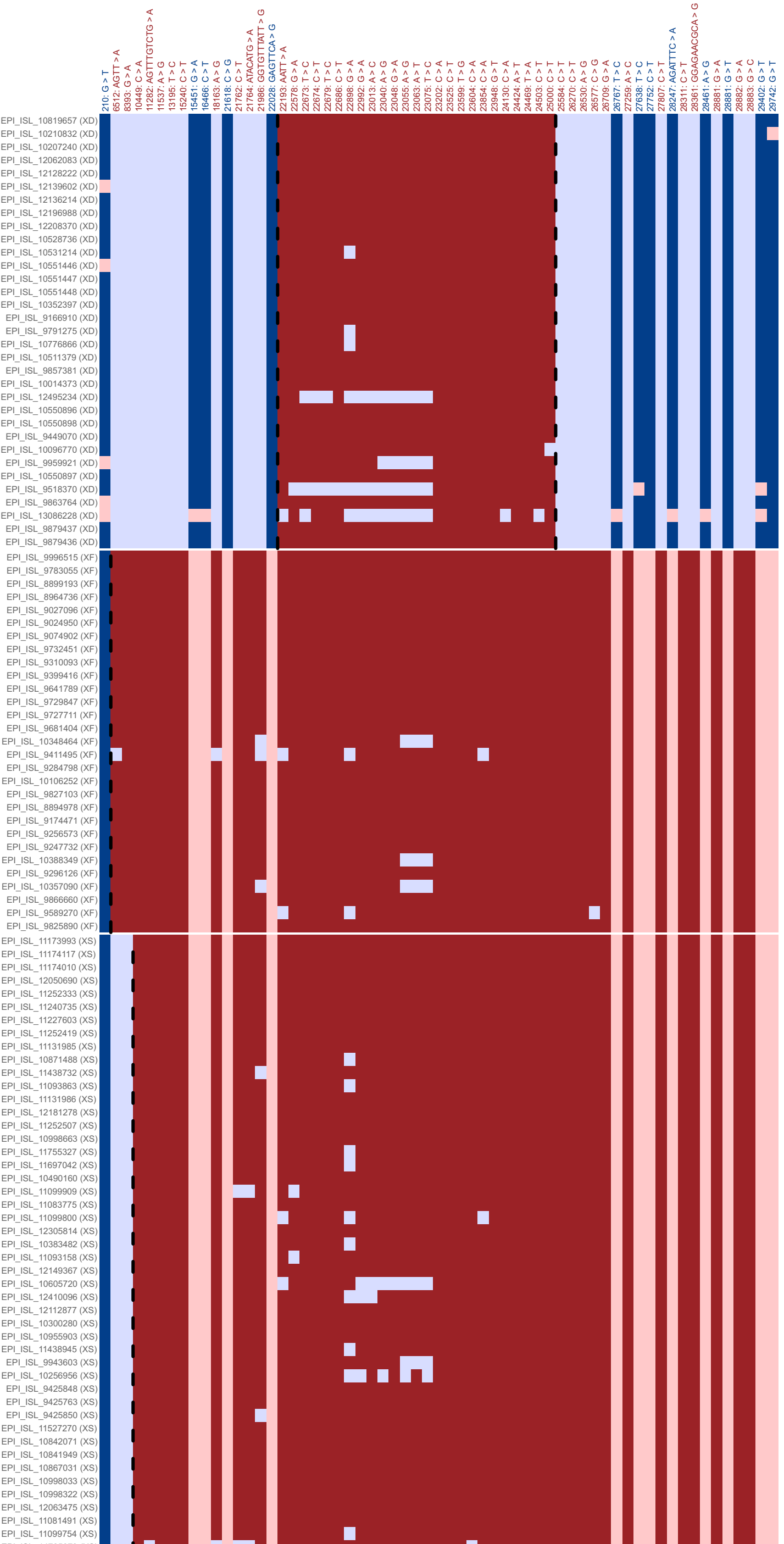


**Supplementary Figure 5.** Mutually exclusive defining mutations in GISAID samples assigned to the XD, XF and XS 'Deltacron' (recombinant Delta and Omicron) lineages. Samples (rows) are listed by their GISAID ID, with their Pango lineage indicated in brackets. Defining mutations (columns) are colored by their respective variant (blue for Delta and red for Omicron). Heatmap colors show whether the given sample contains the given mutation or not (dark blue: present Delta-mutation; light blue: missing Omicron-mutation; dark red: present Omicron-mutation; light red: missing Delta-mutation). Dashed vertical lines mark the recombination breakpoint range(s) for each lineage. (The same genomic regions are indicated with red shaded areas in Figure 4 of the main manuscript.)



**mutational status**

reference (missing Delta-mutation) reference (missing Omicron-mutation) Delta-mutation Omicron-mutation