

## **Description of Additional Supplementary Files**

**File name:** Supplementary Data 1

**Description:** The defending systems predicted by PADLOC and grouped by LQ or HQ strains. The mza and RM systems are highlighted in red and blue, respectively.

**File name:** Supplementary Data 2

**Description:** Source data used to plot Fig 1b-c, 1e, 2b-e, 3b-c, and 4.