

S6 Fig. No single cytochrome oxidase is required to establish infection. (A) Growth over time, measured via optical density (left) or CFU/mL (right), for strains with two cytochrome oxidase-encoding gene loci. The data for $cyd1^+$ $cta1^+$ can be found in S4A Fig. (B) Bacterial burden over time within the nasal cavity of mice infected with a strain with only the cytochrome oxidase-encoding gene loci conserved in *B. pertussis* (*Bp*-conserved, maroon hexagon), a strain with only ctaCDFGE1 and cyoABCD1 ($cta1^+$ $cyo1^+$, orange upright triangle), a strain with only cydAB1 and cyoABCD1 ($cyd1^+$ $cta1^+$, green upside-down triangle). Samples from 5 mice were collected at each timepoint for each strain. However, due to the natural microbiota of the nasal cavity, *B. bronchiseptica* could not always be enumerated due to contamination. Therefore, n=4 for $cta1^+$ day 3. Each point represents a single mouse. Dashed line represents the limit of detection. Statistical significance was determined using unpaired Student's t-test; p-values are indicated when p < 0.05. Raw data: https://doi.org/10.15139/S3/X7T09R (S6A Fig); https://doi.org/10.15139/S3/MOWIZL (S6B Fig)