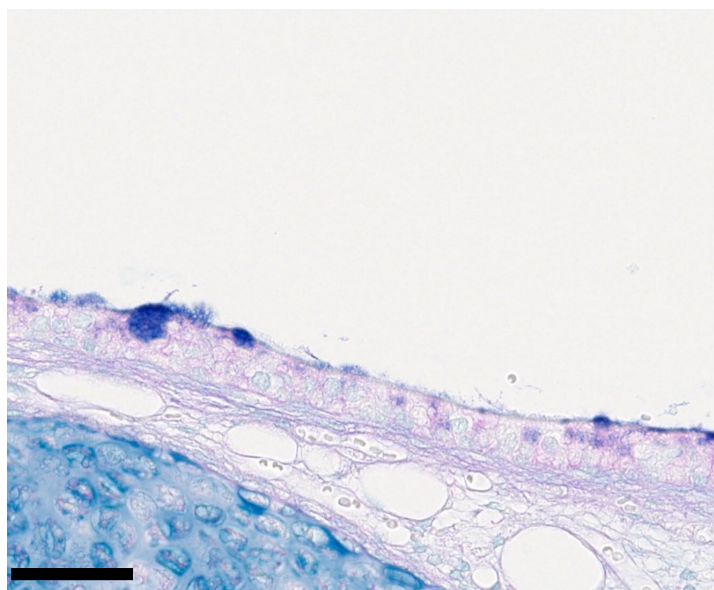
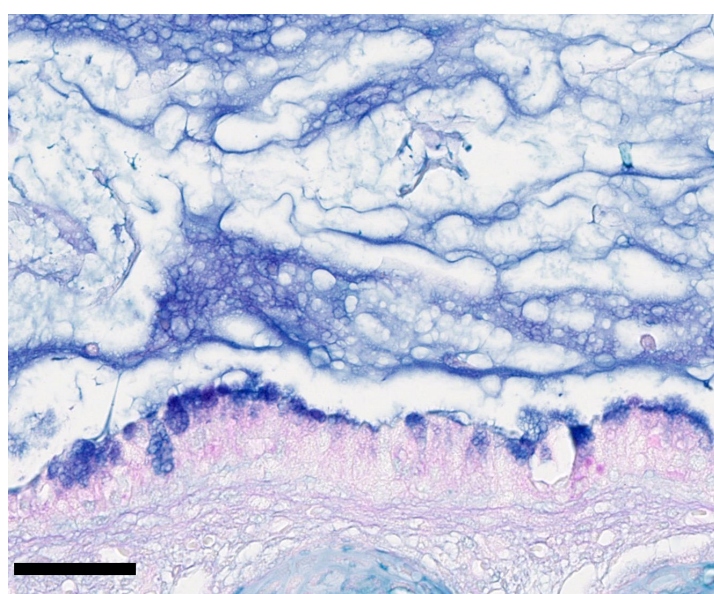
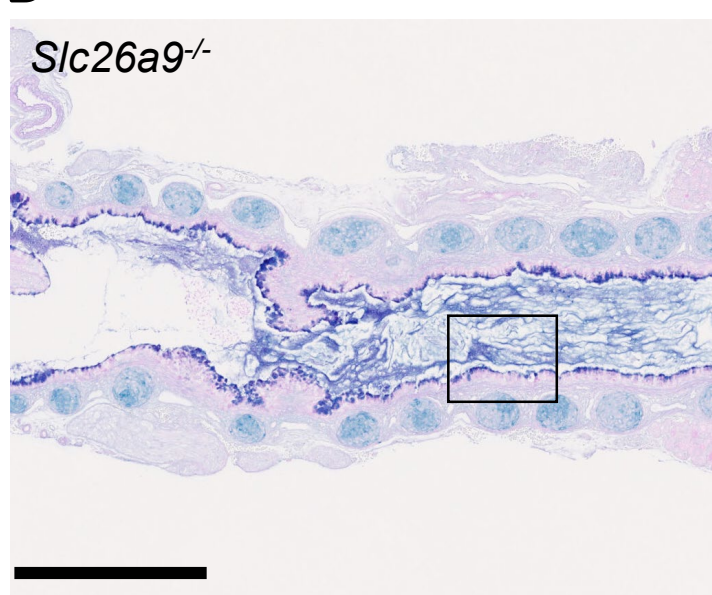


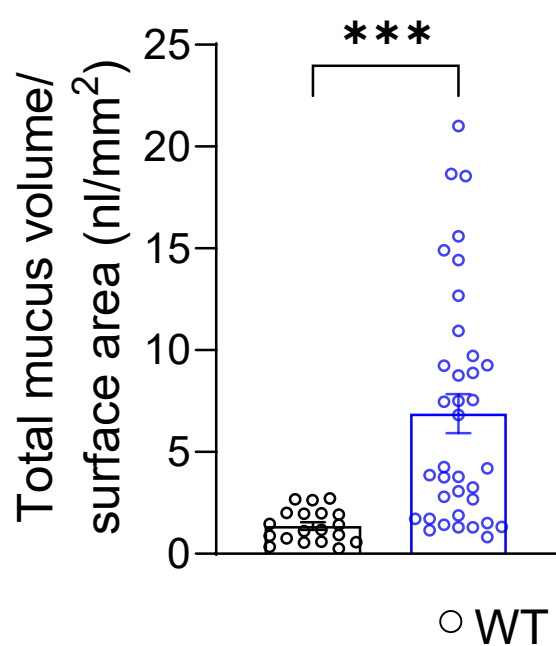
A



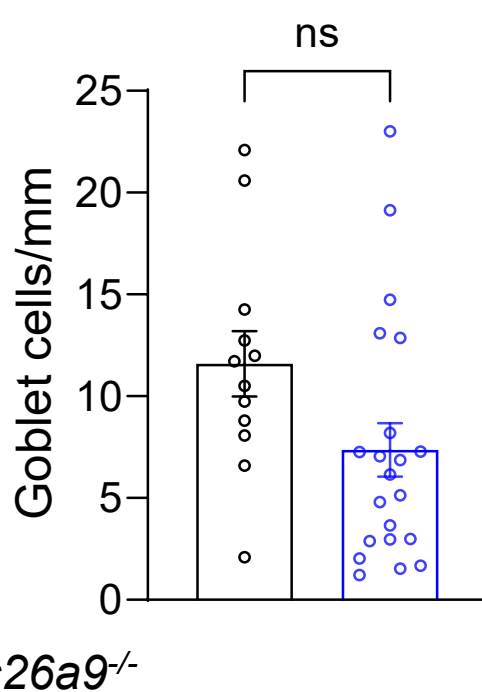
B



C



D



Supplemental Figure 1. Quantification of goblet cells and intraluminal mucus content in the trachea of newborn wild-type (WT) and *Slc26a9*^{-/-} mice. (A, B) Representative images of AB-PAS stained trachea sections from newborn WT and *Slc26a9*^{-/-} mice. Scale bar: 500 μ m, insets 50 μ m. (C) Total mucus content and (D) goblet cell counts in the trachea of newborn WT and *Slc26a9*^{-/-} mice. N = 12 – 36 mice per group. *** $p < 0.001$

Wild-type

Slc26a9^{-/-}

Brain

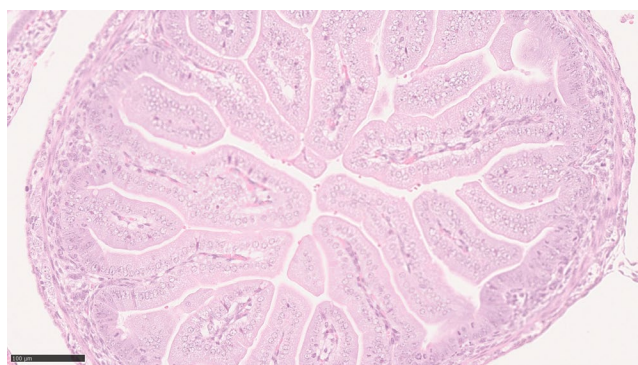
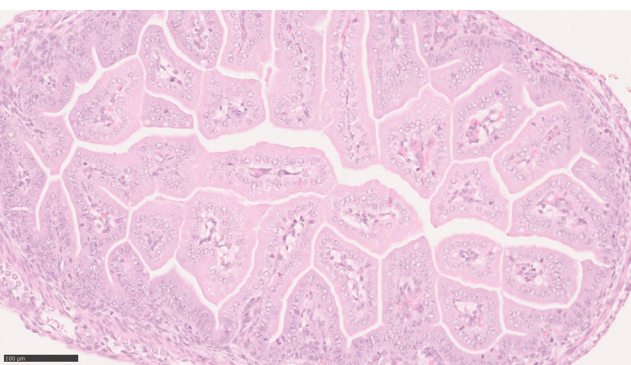
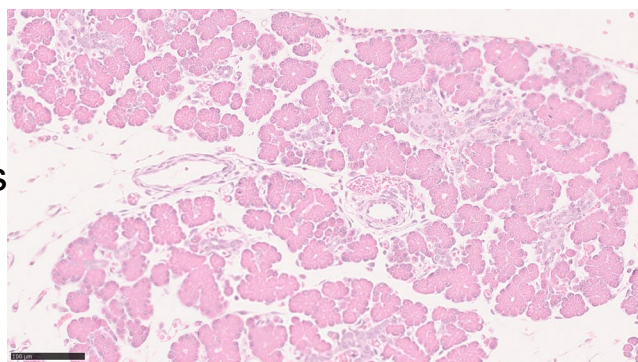
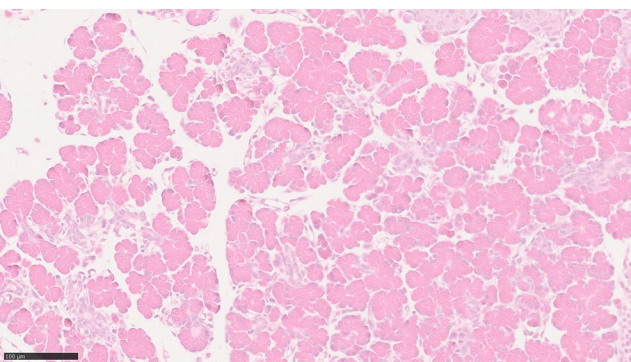
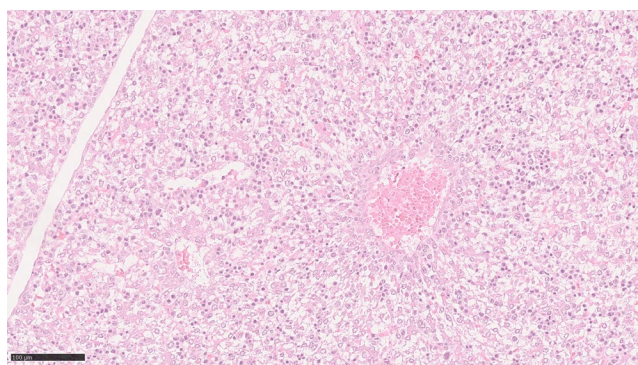
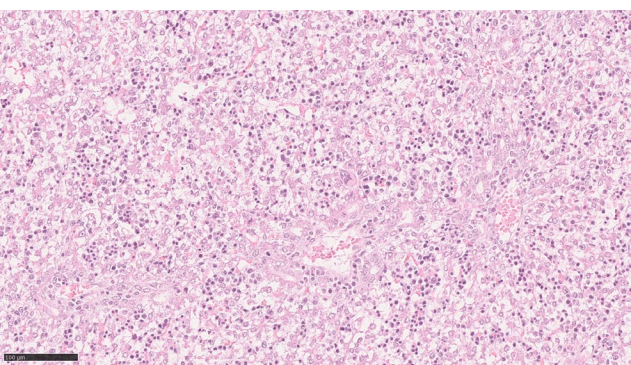
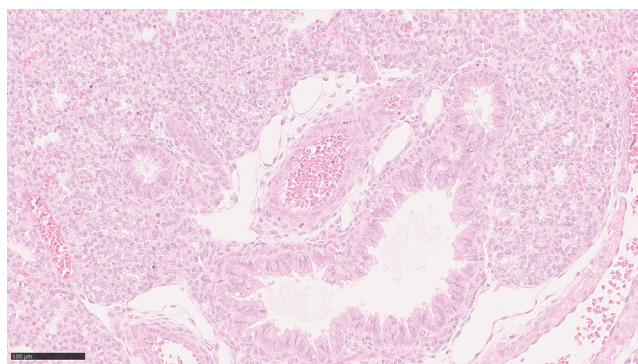
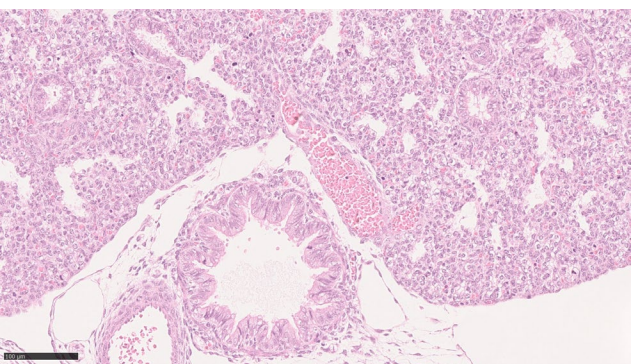
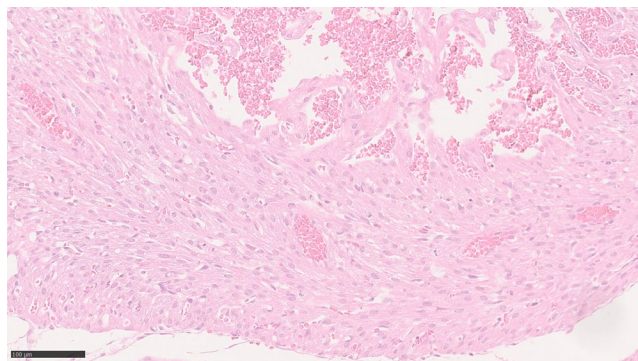
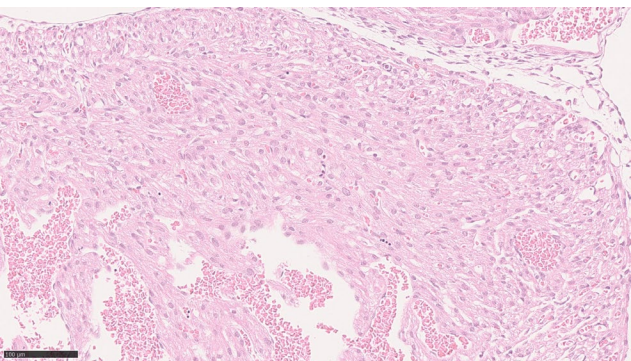
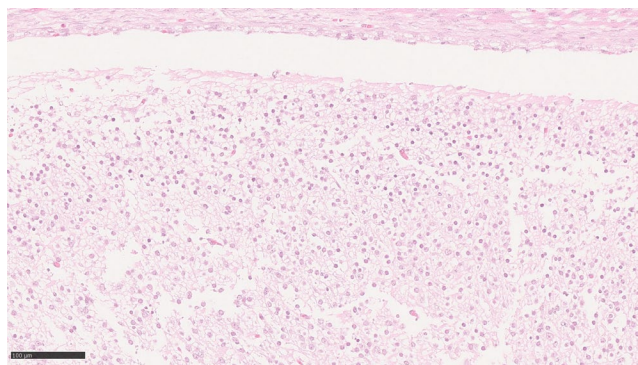
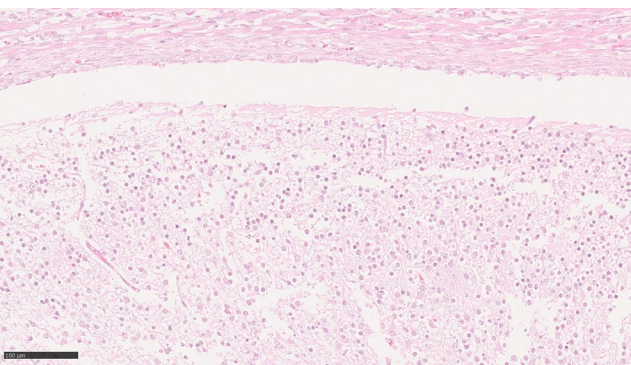
Heart

Lung

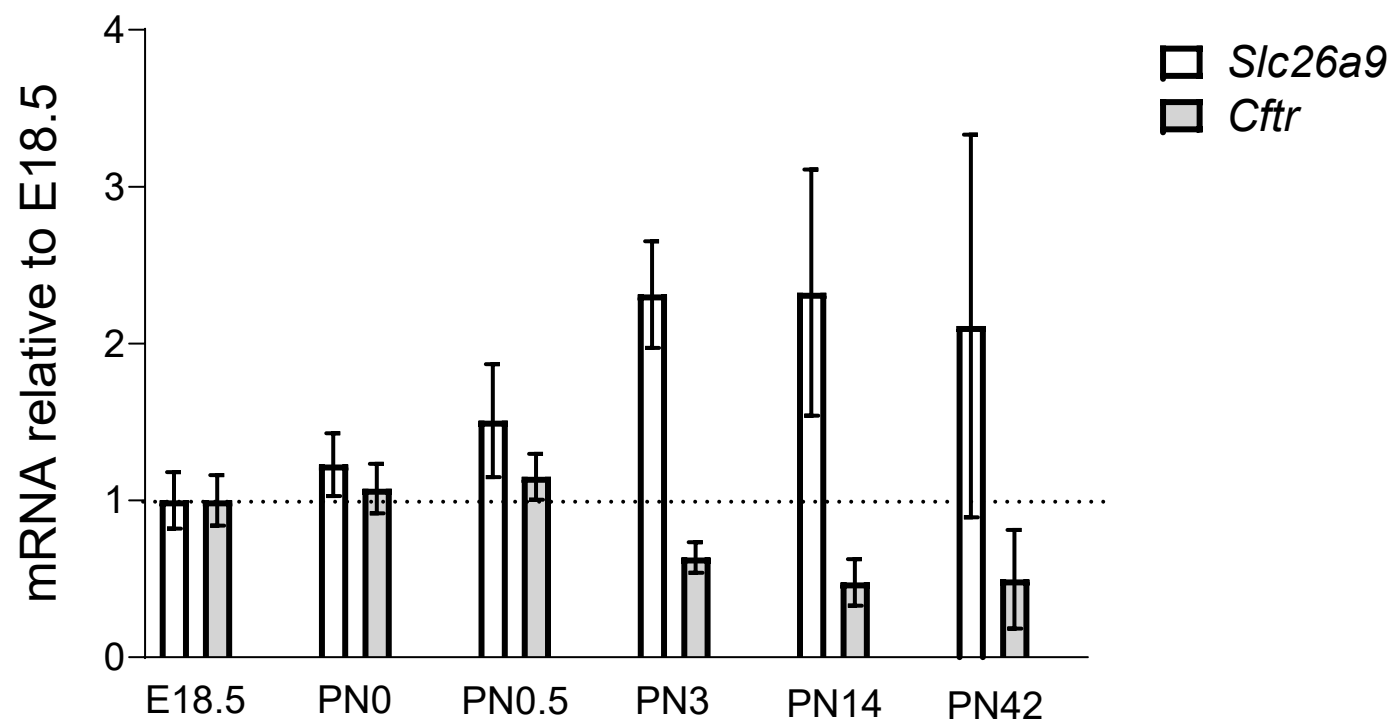
Liver

Pancreas

Intestine



Supplemental Figure 2. Histopathological analysis of vital tissues revealed no changes in *Slc26a9*^{-/-} mice at E17. Representative images of vital tissues, including brain, heart, lung, liver, pancreas and intestine in wild-type (n=3) and *Slc26a9*^{-/-} (n=5) mice. Scale bar: 100 μm.



Supplemental Figure 3. Transcript expression of *Slc26a9* and *Cfr* in wild-type mouse lung homogenates during development. N = 4 – 16 mice per group.