

Supplemental Table 1: Effect of HCO_3^- concentration on the apical or the basolateral side of the cell on voltage, resistance, current and pH (HCO_3^- substituted for methanesulfonate).

Supplemental Table 2: Composition of Tissue Culture Medium

Supplemental Figure 1: Effect of NaHCO₃, aldosterone and acetazolamide on CCD cross sectional diameter in wild type and pendrin null mice. Cross sectional diameter (OD-ID) was measured in CCDs from wild type and pendrin null mice following the treatment models described in Figure 3. As shown, cross sectional diameter was lower in CCDs from pendrin null relative to wild type mice following treatment with aldosterone alone or aldosterone and NaHCO₃. However, cross sectional diameter was the same when acetazolamide was added to the treatment protocol. Values were compared between pendrin null and wild type mice following each treatment protocol using ANOVA.

