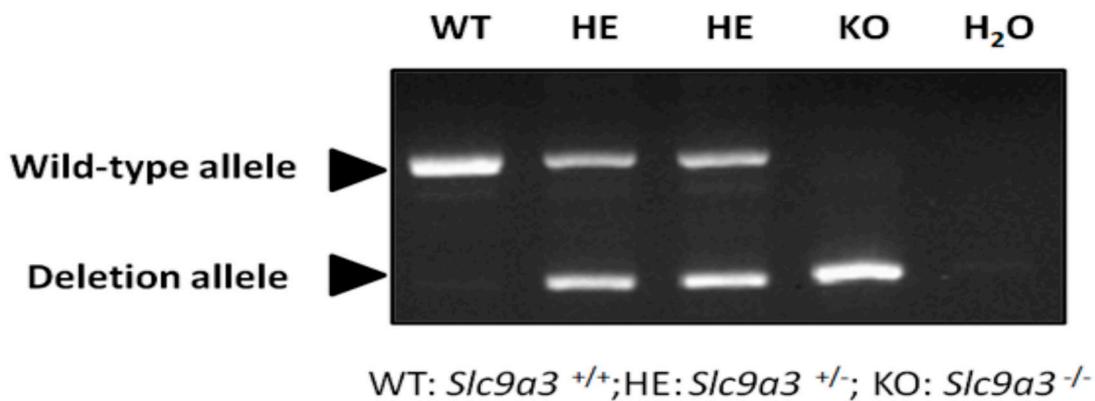
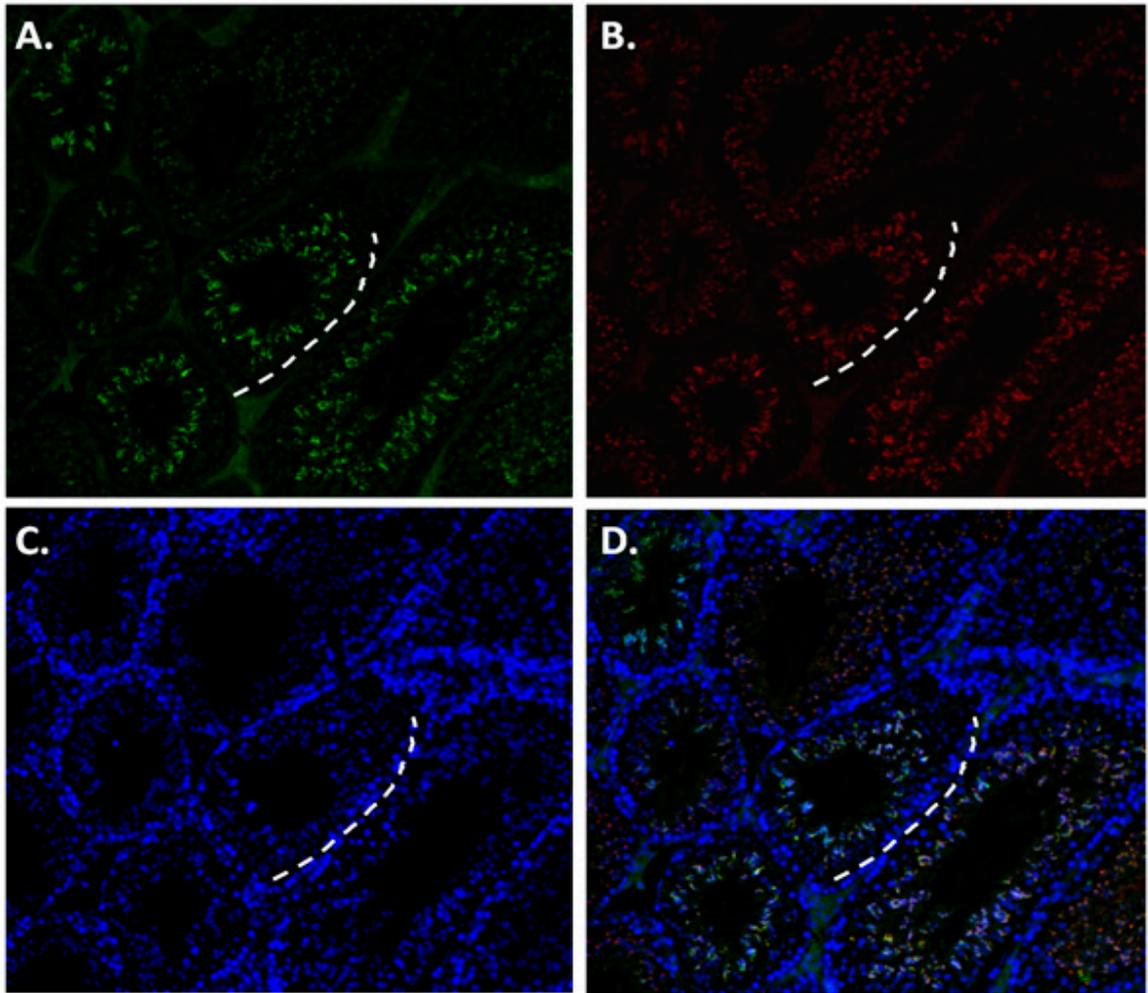


**Supplemental Figure 1.** SLC9A3 expression in the murine testis. SLC9A3 expressed in the intestines, epididymides, vas deferentia, and testes of adult wild-type mice compared with intestines of *Slc9a3*<sup>-/-</sup> mice was assessed through western blotting. The upper image shows SLC9A3 expression (arrow), and the lower image shows GAPDH expression, which was used as a loading control. The marked region is shown in Figure 1A.



**Supplemental Figure 2.** Genotyping of SLC9A3 knockout mouse. Genotyping of *Slc9a3*<sup>+/+</sup> and *Slc9a3*<sup>-/-</sup> mice through PCR. Wild-type (WT): SLC9A3<sup>+/+</sup>; Heterozygous (HE): *Slc9a3*<sup>+/-</sup>; Knockout (KO): *Slc9a3*<sup>-/-</sup>. Control of PCR reaction (H<sub>2</sub>O).



**Supplemental Figure 3.** SLC9A3 expression in the murine testis. The testis of WT mice was detected through immunofluorescence staining with anti-SLC9A3 primary antibodies (a.). (b.) Lectin (acrosome marker; red) and (c.) DAPI (nucleus marker; blue) are costained and displayed in merged images (d.). The marked region is shown in Figure 1B.