Supplemental Figure 1

H&E staining of corneas from HAS1−/−;HAS3−/−, HAS2ΔΔCorEpi, TSG-6−/− and wild-type mice. HAS1−/−;HAS3−/− and HAS2ΔΔCorEpi mice, but not TSG-6−/− mice, have a reduced number of epithelial cell layers. Scale bar = 50 μm.

Supplemental Figure 2

The ultra-structure of HAS2ΔΔCorEpi mouse corneas 2 weeks after alkali burn in more detail. HAS2ΔΔCorEpi mice present uneven basal cells, and the cell membrane presents ridges and protrusions. The section outlined in A is shown with a larger magnification in B. Scale bar represents 2 μm.
Supplemental Figure 3

Expression profile of CD44 in the corneal epithelium of HAS1+/--; HAS3+/--; HAS2ΔΔCorEpi and wild-type mice. Whole-mount corneas were stained for CD44 (red) and nuclei stained with DAPI (blue). A z-stack of the epithelium in the central cornea was imaged and presented as a cut view. A z-stack projection can be seen at the top and to the right of each image, and the fine blue line in the z-stack projection indicates the plane of the image presented.