Supplementary Figure 1. Genotyping of mice. PCR products are separated on a 1.5% agarose gel and stained with ethidiumbromide. Standard is TrackIt™ 50 bp DNA ladder. Wild-type alleles give fragments of 254 bp, and KI alleles fragments of 370 bp. Animals 1 and 5 are wt, 2, 3, 4 and 6 are heterozygous KI.

Supplementary Figure 2. Western blot analysis of proteins related to ER stress. Cells were grown until 5 days after confluency, and cell pellets were harvested. Lane 1 is healthy human,
lane 2 is human CSCD. Lane 3 is wt mouse, lane 4 is heterozygous KI mouse and lane 5 is homozygous KI mouse. The figure shows that there is no up-regulation of ER stress related proteins in CSCD or in the mouse keratocytes.