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SUPPLEMENTARY ONLINE DATA

The potency of the fs260 connexin43 mutant to impair keratinocyte differentiation is distinct from other disease-linked connexin43 mutants

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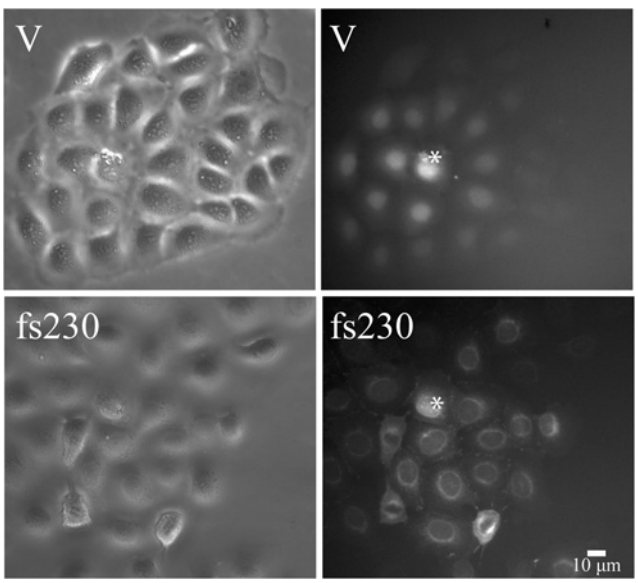

Figure S1 Microinjection of Lucifer Yellow into vector control and fs230-expressing REKs

A single cell was microinjected with Lucifer Yellow (asterisks) in either vector or fs230-mutant-expressing REKs. Lucifer Yellow was found to readily transfer to neighbouring cells in only the vector control cells. Phase-contrast (left panels) and fluorescent (right panels) images were acquired to visualize cell clusters and Lucifer Yellow dye transfer. Note that the GFP-tagged fs230 mutant was also detected in the fluorescent image.

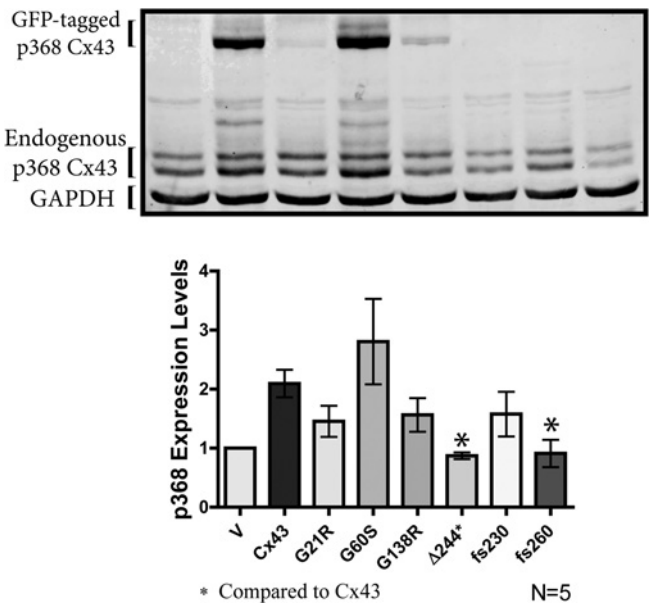

Figure S2 Western blot and quantification of the endogenous p368 phosphorylated species of Cx43

Western blots revealed a significant decrease in the p368 levels of Cx43 in both the fs260 and Δ244* cells when compared with full-length Cx43-expressing REKs. $^{*}P<0.05$.

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