

**Supplementary Table 2.** List of TF genes whose expression was changed 2fold in KCs from tails of adult *Nfat5*<sup>-/-</sup> mice.

Genes whose expression was enhanced 2fold and more:

Gene	Protein	Function in Epidermis/Skin	Refs.
<i>Barx2</i>	BarH-like homeobox 2 Factor	Transcriptional repressor that regulates hair follicle remodelling.	(37)
<i>Foxn1</i>	Forkhead box N1 Whn	Nude mice: skin disorder congenital alopecia, and nail dystrophy. Foxn1 drives skin healing via engagement in re-epithelization and the epithelial-mesenchymal transition (EMT) process (Mmp9 as target gene).	(39) (50)
<i>Mxd1</i>	MAX dimerization protein 1 MAD1	Antagonizes Myc activity. Highly expressed in epidermal KCs. Mad:Max complexes are detected during differentiation and appear to replace the Myc:Max complexes present in proliferating keratinocytes and other cells.	(33)
<i>Sox11</i>	SRY-box TF11	Dictates embryonic epidermal state, reactivation of embryonic genes during wound repair. Peripheral neuron regeneration.	(40)
<i>Hopx</i>	HOP homeobox	Transcriptional co-factor, does not bind to DNA. Positive regulator of late KC differentiation. Marker for a subset of multipotent hair follicle stem cells.	(34)
<i>Grhl3</i>	Grainyhead like transcription factor 3	Mouse skin lacking Grhl3 showed increased infiltration of mast cells and pro-inflammatory T cells, increased expression of the pro-proliferative/pro-inflammatory markers CD3 and pSTAT3, and significantly elevated basal KC proliferation. GRHL3 regulates barrier formation during epidermal development.	(35)
<i>Klf10</i>	Krüppel-like factor 10	Suppressor of KC proliferation and apoptosis. p21 <sup>WAF</sup> is a downstream target. Tumor-Suppressor.	(36)
<i>Egr1</i>	Early growth response 1	Upregulation in psoriatic skin lesions by IL-17A, binding to the psoriasin (S100A7) promoter. Early induced gene in wounded KCs.	(42)
<i>Zfp750</i>	Zinc finger protein 750	Role inf seborrhea-like dermatitis with psoriasiform elements. Selective expression in KCs.	(43)

Gene whose expression was decreased 2fold and more:

<i>Irf9</i>	Interferon regulatory factor 9	Highly expressed in psoriatic lesions of skin	(44)
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