

Table S1. Selected categories of genes upregulated more than fivefold in K14NICDER transgenic mice relative to wild-type littermate controls

Genes involved in barrier formation and integrity	Fold upregulation	
Keratin 6A (3 probes)	147.0 / 55.5 / 32.1	
Keratin 6b	63.9	
S100A8	49.2	
Lipid desaturase (Degs2)	27.1	
Sprr1b	27.1	
Sprr2d	25.7	
S100A9	17.0	
Sprr2h	12.4	
Filaggrin	8.1	
Late cornified envelope 3a	8.1	
Sprr 2i	7.7	
Sprr 2f	7.1	
Sprr 2a (2 probes)	6.6 / 5.0	
	Fold change	
Genes involved in neural crest stem cell differentiation	Epidermis	Dermis
Cerebellin 1 precursor protein	N/C	74.0 / 13.1 / 9.3
Dopachrome tautomerase	5.4	N/C
Edn1	13.1	N/C
Ednra	11.9 / 9.0	N/C
MelanA	8.0	3.8
Melanoma Antigen	N/C	7.7
Neurophexin 1	9.0	6.0 / 2.7
Neuregulin 1	17.0	2.3
Sox 11	7.8 / 6.2 / 4.4 / 4.2	13.3 / 13.3 / 11.3 / 3.5
Tenascin C	7.7 / 6.2	9.9 / 5.3
Tenascin N	18.8	3.8
Tyrosinase-related protein 1	37.3 / 23.2	4.9 / 4.1 / 3.5
Upregulated growth factors and cytokines in the epidermis	Fold upregulation	
CCL1	43.1	
Tumor Necrosis Factor alpha	17.1	
Neuregulin 1	17.0	
CXCL2	15.3	
CCL20	14.1	
Inhibin A	11.8	
CXCL12	8.0	
CXCL9	7.8	
SPP1	7.6	
TSLP	6.1	
Leukemia Inhibitor Factor	6.1	
CCL2	6.1	

All values shown are fold upregulation, except value in bold, which denotes fold downregulation.