

(left panel) and basal cell carcinoma (BCC) (right panel). Note strong SPRR2 and SLPI staining in differentiated keratinocytes of normal skin, but weaker staining in BCCs. Scale bar: 100 $\mu$ m.

		Female		Male	
		tg/wt	tg/tg	tg/wt	tg/tg
6 month	Incidence	0% (0/5)	25% (2/8)	0% (0/4)	33% (1/3)
	Multiplicity	0	0.25	0	0.33
1 year	Incidence	0% (0/12)	27% (3/11)	0% (0/10)	71% (5/7)
	Multiplicity	0	0.6	0	1
2 years	Incidence	0% (0/12)	58% (10/17)	25% (1/4)	84% (5/6)
	Multiplicity	0	1.2	0.25	1.5

**Supporting Information Table S1:** Incidence and multiplicity of macroscopically visible cysts in tail skin of 1 year- and 2 year-old female and male control and K5cre-CMVcaNrf2 mice. Cyst incidence is shown in percentage and in absolute numbers (in brackets).

Name	Forward	Reverse
<i>qRT-PCR primers for mouse genes</i>		
<i>Ahr</i>	ATCGCCACTCAGAGACCACT	AGGGCTGGAGATCTCGTACA
<i>Adph</i>	CCTCAGCTCTCCTGTTAGGC	AGGTTGGCCACTCTCATCAC
<i>Areg</i>	AGGCTCAGGCCATTATGCAGC	TCCCCTGTGGAGAGTTCACTGCC

<i>Btc</i>	CCAATGGCTCTCTTTGTGGA	CCGAGAGAAGTGGGTTTTCA
<i>DNA_ns</i>	GCAGCACAAGGAACATTCAG	CGCCTAACTGCAGGTGATGT
<i>Egf</i>	TCGAGAGAAGCGAGAGAAGC	CACCAATTGCTGGTGATTTG
<i>Epgn</i>	ATGAGCTGAAGCAAGCCATT	CTCCCTCCAGAGCAGATGAT
<i>Epgn_ARE</i>	TGAAATCAATGGATGAGGATG	TGCCCTGATGCTAAGGTTTC
<i>Epgn_prom</i>	CAGCAGGGAATTTTCCACAT	GGCACTCGCACACTTGTTTA
<i>Ereg</i>	TATCAGCACAACCGTGATCC	GGGATCGTCTTCCATCTGAAC
<i>Gapdh</i>	TCGTGGATCTGACGTGCCGCCTG	CACCACCCTGTTGCTGTAGCCGTAT
<i>Gclc</i>	AACAAGAAACATCCGGCATC	CGTAGCCTCGGTAAAATGGA
<i>Gclm</i>	TCCCATGCAGTGGAGAAGAT	AGCTGTGCAACTCCAAGGAC
<i>Gsta3</i>	TACTTTGATGGCAGGGGAAG	GCACTTGCTGGAACATCAGA
<i>Hbegf</i>	TAGTCCCCTGAGGAGGAC	TCATGGCTGCTGGTGAATA
<i>Lce3a</i>	CCTATCACCTTCCCATCTGGT	GCTGGCACTGCTTCTGACTC
<i>Mc5r</i>	CAGAGCCCGGTAAACAGAAG	CACTTCTTGGCATCGGATTT
<i>Nqo1</i>	CTGGCCCATTCAGAGAAGAC	GTCTGCAGCTTCCAGCTTCT
<i>Nqo1_ARE</i>	AGCAGAACGCAGCACGAAT	CACTCAGCCGTGGGAAGT
<i>Nqo1_ns</i>	TACGCTGTAGTGGTGGTGGGA	TCTGGGGACTTGGGTATCTG
<i>Nrf2</i>	CCAGCTACTCCCAGGTTGC	CCAAACTTGCTCCATGTCCT
<i>Plin2 (Adph)</i>	CCTCAGCTCTCCTGTTAGGC	AGGTTGGCCACTCTCATCAC
<i>Pparg</i>	TGATTACAAATATGACCTGAAGCTCC	TTGTAGAGCTGGGTCTTTTCAGAA
<i>S100A7</i>	CTTGTCCCTGGAGGAGTTGA	GCAGATCTGGTTGTCCTTGTT
<i>Scd1</i>	CGGTGCACAACGTACCAAT	TTGATCCAGAGGACGTGCAT
<i>Scd2</i>	GTCGCTGAGGTCTGAAGCTC	TTGTGGTGGTGGCTGAGTAA
<i>Scd3</i>	CTGCAAGAAGAGATGACGCC	GTAGACAAACGCGAAGAGGC
<i>Scd4</i>	TCTAGGCTTCCAAGGAGCAA	TTCAGGCCGGATATCTTCTG
<i>Slpi</i>	GGGCAAATACAAGTGCTGTG	CCTGGGAGCAGGGAAGTAGT

<i>Sprr2a</i>	TGAGGCAGGCAATCCTATAAA	GATTGCACTGCTGCTGGTAG
<i>Sprr2d</i>	CTGGTACTCAAGGCCGAGAC	CAGGGCACTTTGGTGGAG
<i>Srxn1</i>	CGGTGCACAACGTACCAAT	TTGATCCAGAGGACGTTCGAT
<i>Tgfa</i>	CTGAGTGACTCACCCGTGGC	GCGGAGCTGACAGCAGTGGAT
<b><i>qRT-PCR primers for human genes</i></b>		
<i>AHR</i>	ATCCAGTACTGCCAGGCCAA	AAGGTCTGGCTTCTGACGGA
<i>CYP1A1</i>	CCAGCTCAGCTCAGTACCTCA	AAGATGACAGAGGCCAGAAGA
<i>CYP1B1</i>	AACGTACCGGCCACTATCAC	GCACTCGAGTCTGCACATCA
<i>GAPDH</i>	AAGGTCGGAGTCAACGGATT	CTCCTGGAAGATGGTGATGG
<i>GCLC</i>	ACTCCCTCATCCATCTGGCAA	ACTCCCTCATCCATCTGGCAA
<i>EPGN</i>	TGACAGCACTGACCGAAGAG	CCAGGCAAAGGTGTGAGAAC
<i>K14</i>	AGGAGGAGATGAATGCC	AGCTCCTCTGTCTTGGTGAAG
<i>NQO1</i>	GTGATATTCCAGTTCCCCCTGC	AAGCACTGCCTTCTTACTCCGG
<i>NRF2</i>	AGGTTGCCACATTCCCAA	AATGTCTGCGCCAAAAGCTG
<i>SLPI</i>	CTGTGGAAGGCTCTGGAAAG	CAGTCACTCTGGCACTCAGG
<i>SRXN1</i>	CAAGGTGCAGAGCCTCGT	GATGGTCTCTCGCTGCAGTT
<i>SPRR2D</i>	CTTTCTCCTTAACCTGTGGCCT	GCAGTATGGCAGCCTCAGA
<b><i>siRNAs</i></b>		
<i>AHR1</i>	GGCUCUUUCAAGAUAGUAA [dTdT]	
<i>AHR2</i>	CGGAUGAAAUCCUGACGUA [dTdT]	
<i>Nrf2-2</i>	GAGAAAGAAUUGCCUGUAA [dTdT]	
<i>Nrf2-7</i>	GCUCAUACUUUAUAAGUAA [dTdT]	
<b><i>Primers for cloning of in situ hybridization probes</i></b>		
<i>Epgn-T7</i>	taatacgactcactatagggATGTTGAGTGCCCGAAGAAC	
<i>Epgn-SP6</i>	gatttagtgacactatagCCTAGCACAGCACAGCAGAG	

**Supporting Information Table S2: List of oligonucleotides and their sequences**