

**Table S1. List of primers used for qRT-PCR and genotyping**

Gene	Forward sequence	Reverse sequence
<i>Ccl20</i>	TGACTCTTAGGCTGAGGAGGT	AGCAGCAAGCAACTACGACT
<i>Gapdh</i>	TCGTGGATCTGACGTGCCGCCTG	CACCACCCTGTTGCTGTAGCCGTAT
<i>Gclm</i>	TCCCATGCAGTGGAGAAGAT	AGCTGTGCAACTCCAAGGAC
<i>Gsta3</i>	TACTTTGATGGCAGGGGAAG	GCACTTGCTGGAACATCAGA
<i>Icam1</i>	TCCGCTGTGCTTTGAGAACT	TCCGGAAACGAATACACGGT
<i>Il6</i>	CCGGAGAGGAGACTTCACAG	TTCTGCAAGTGCATCATCGT
<i>Il13</i>	TCACACAAGACCAGACTCCCC	CTCCTCATTAGAAGGGGCCG
<i>Il1b</i>	GGACAGAATATCAACCAACAAGTG	TGCTGATGTACCAGTTGGGG
<i>Il33</i>	GGTTTGCTTTAGAGAGGGTCCA	ACAATCATTGTTTAGAACCAAGGAA
<i>Nqo1</i>	GTCTGCAGCTTCCAGCTTCT	CTGGCCCATTTCAGAGAAGAC
<i>S100a8</i>	GCCGTCTGAACTGGAGAAG	GTGAGATGCCACACCCACTTT
<i>S100a9</i>	CGCAGCATAACCACCATCAT	AAGATCAACTTTGCCATCAGC
<i>Sipi</i>	CGGCAAATACAAGTGCTGTG	CCTGGGAGCAGGGAAGTAGT
<i>Srxn1</i>	CGGTGCACAACGTACCAAT	TTGATCCAGAGGACGTCGAT
<i>Tarc</i>	AATGTAGGCCGAGAGTGCTG	ACAGTCAGAAACACGATGGCA
<i>Tnfa</i>	GACCCTCACACTCAGATCATCTTCT	CCACTTGGTGGTTTGCTACGA
<i>Tslp</i>	CGACAGCATGGTTCTTCTCA	CGATTTGCTCGAACTTAGCC
<i>NQO1</i>	GTGATATTCCAGTTCCCCCTGC	AAGCACTGCCTTCTTACTCCGG
<i>SLPI</i>	AAT GCC TGG ATC CTG TTG AC	AAA GGA CCT GGA CCA CAC AG

Gene	Forward sequence	Reverse sequence
<i>RPL27</i>	TCA CCT AAT GCC CAC AAG GTA	CCA CTT GTT CTT GCC TGT CTT
Genotyping	Forward sequence	Reverse sequence
<i>caNrf2</i>	CGGCTCAGCACCTTGTATC	CTTATTCCAAGCGGCTTCGGC
<i>Cre</i>	AACATGCTTCATCGTCGG	TTCGGATCATCAGCTACACC
<i>Spink5</i> mut	GGAATGTGATGAAAGAAATAAAAGC	CATCCATTAGTTTATCTCTTACTCCAG
<i>Spink5</i> wt	GGCATATAGTGTGTTTGGAGC	CATCCATTAGTTTATCTCTTACTCCAG

**Table S2. List of antibodies used for immunofluorescence staining**

Antigen	Species	Manufacturer and catalogue number/clone number
CD3	Rabbit	DAKO, Glostrup, Denmark; #A0452; 1:100 diluted
Cdsn	Mouse	gift from Prof. Dr. Guy Serre, University of Toulouse, France, 1:500 diluted.
K14	Rabbit	Covance, Princeton, NJ, #PRB-155P; 1: 50,000 diluted
K6	Rabbit	Covance, NJ; #PRB-169P; 1:1000 diluted
Loricrin	Rabbit	Covance, NJ, #PRB-145P; 1:200 diluted
Ly-6G	Rat	BD Bioscience, San Jose, CA; clone 49-H4; 1: 100 diluted
MSL	Rat	Abcam, Cambridge, UK; ab15635; 1:200 diluted
Slpi	Rabbit	Santa Cruz Biotechnology, Santa Cruz, CA; #sc28803, 1:100 diluted
Mouse IgG - Cy3	Goat	Jackson ImmunoResearch, West Grove, AP; #115-165-00; 1:500 diluted
Rabbit IgG - biotinylated	Goat	Jackson ImmunoResearch, #111-065-003; 1:500 diluted
Rabbit IgG - Cy3	Goat	Jackson ImmunoResearch, #111-165-003, 1:500 diluted
Rat IgG - biotinylated	Rabbit	Vector Laboratories, Burlingame, CA; #BA-4001; 1:200 diluted