



**Figure S1** Identification and confirmation of the floxed *LCMR1* allele. (A) Representative agarose gel electrophoresis image of the PCR product amplified for genotyping. *LCMR1*<sup>flox/wt</sup> mice exhibited 4.4-kb (left panel) and 4.6-kb bands (right panel) produced by the floxed *LCMR1* allele. (B) Sanger sequencing result of the above PCR products from a *LCMR1*<sup>flox/wt</sup> mouse. (C) Southern blot analysis confirmed the correct insertion of the two loxP sites. The expected fragment size of gDNA hybridized with the 5' Probe (left panel): 15.23 kb (WT) and 11.64 kb (floxed allele); 3' Probe (right panel): 8.62 kb (WT) and 5.56 kb (floxed allele). Wt, wide type. PCR, polymerase chain reaction.

**Table S1** Primers for PCR

Primer sequence	Product size, bp
LCMR1 <sup>flox</sup> (5'-loxP site) Forward: CACTGCCTCCCAAGTGAGTGCTG Reverse: CCCCAATGACCACACATAATCCTTC	Flox (265)/WT (198)
LCMR1 <sup>flox</sup> (3'-loxP site) Forward: ACATGAGTGCAGTATCCTGAGGC Reverse: AAATAGAAGCAGAAGCACTACAAAC	Flox (289)/WT (214)
LCMR1 <sup>ΔAT2</sup> Forward: CACTGCCTCCCAAGTGAGTGCTG Reverse: AAATAGAAGCAGAAGCACTACAAAC	Knockout (192)
Sftpc-CreER <sup>T2</sup> Forward: TGCTTCACAGGGTCCGGTAG Reverse 1: ACACCGCCTTATTCCAAG Reverse 2: CATTACCTGGGGTAGGACCA	Cre (210)/WT (327)

**Table S2** Primers for quantitative RT-PCR

Gene	Forward primer	Reverse primer
<i>LCMR1</i>	CGATCCCTCATTGAGAAGCCT	TATGCATCAGACGACACTGCTC
<i>SP-A</i>	CTGTCCCAAGGAATCCAGAG	CCGTCTGAGTAGCGGAAGTC
<i>SP-B</i>	TGTGCCAAGAGTGTGAGGAT	CAGGGGCAGGTAGACATCAA
<i>SP-C</i>	ACATGAGTGCAGTATCCTGAGGC	AAATAGAAGCAGAAGCACTACAAAC
<i>SP-D</i>	AAGGTCCACGGGGTGAGAA	TTTGCCTTGAGGTCCTATGTTC
<i>β-actin</i>	CCTGGGCATGGAGTCCTGTG	TCTTCATTGTGCTGGGTGCC