**New Role for Kruppel-Like Factor 14 as a Transcriptional Activator Involved in the Generation of Signaling Lipids**

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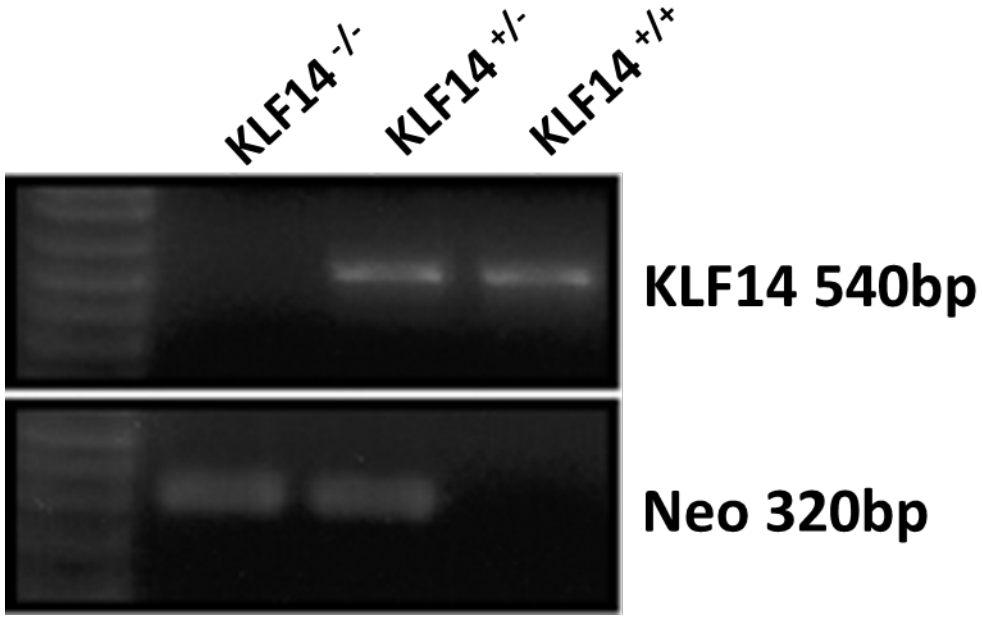
**Supplementary Figure Legends:**

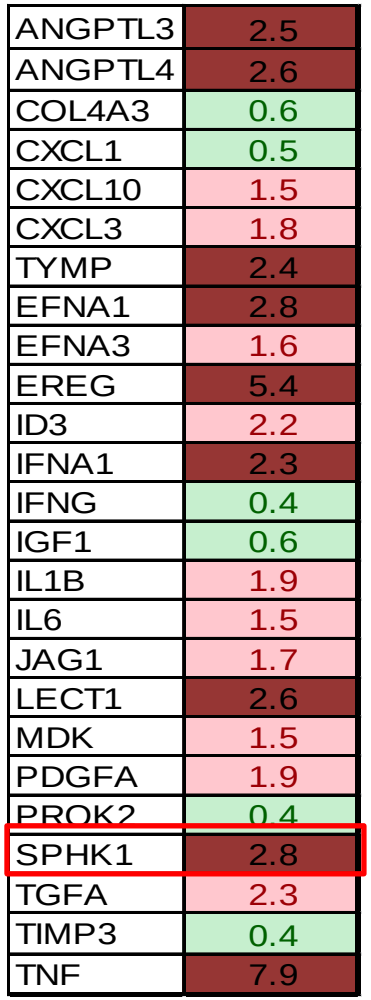
Supplementary Figure 1: PCR genotyping of KLF14$^{-/-}$ mice. The genotype of the animals used to derive the Klf14$^{-/-}$ endothelial liver cells was confirmed by PCR, using 35 cycles of 94°C 30 sec, 55°C 30 sec and 72°C 60 sec with the following primers for Klf14 or the Neomycin cassette: Klf14 forward primer: 5'-TCAACTAGCTGCTTCGAGCC-3' and Klf14 reverse primer: 5'-ACGACCTCGGTACTCGATCA-3'; NEO forward primer: 5'-TCATTCTCAGTATTGTTTTGCC-3', NEO reverse primer: 5'-GAGTTCATCCCTTCTCAAAGG-3'.. The presence of a 323bp product was diagnostic for the presence of the Neomycin cassette and homozygous deletion of Klf14, while a 540bp product indicated an intact Klf14 when run on 1.5% agarose gel

Supplementary Figure 2: qPCR array data showing the mRNA fold change (FGF2/Control) in HHSEC treated with FGF2. The fold changes in mRNA levels are color-coded according to the expression. Different scales of red show up-regulated genes and green boxes shows down regulated genes after FGF2 stimulation. The SK1 gene is highlighted in the figure.

Supplementary Figure 1:



Supplementary Figure 2:



| | |
|---|---|
| ANGPTL3 | 2.5 |
| ANGPTL4 | 2.6 |
| COL4A3 | 0.6 |
| CXCL1 | 0.5 |
| CXCL10 | 1.5 |
| CXCL3 | 1.8 |
| TYMP | 2.4 |
| EFNA1 | 2.8 |
| EFNA3 | 1.6 |
| EREG | 5.4 |
| ID3 | 2.2 |
| IFNA1 | 2.3 |
| IFNG | 0.4 |
| IGF1 | 0.6 |
| IL1B | 1.9 |
| IL6 | 1.5 |
| JAG1 | 1.7 |
| LECT1 | 2.6 |
| MDK | 1.5 |
| PDGFA | 1.9 |
| PROK2 | 0.4 |
| SPHK1 | 2.8 |
| TGFA | 2.3 |
| TIMP3 | 0.4 |
| TNF | 7.9 |