Table S1: The related characteristics of liver tissue samples of human subjects without steatosis, with simple steatosis and with NASH

| Clinical Features          | No steatosis n=8 | Simple steatosis n=6 | NASH n=28               |
|---------------------------|------------------|----------------------|-------------------------|
| Age (years)               | 39.55 ± 11.14    | 35.50 ± 10.47        | 34.03 ± 9.08            |
| Gender                    |                  |                      |                         |
| Male                      | 4                | 4                    | 15                      |
| Female                    | 4                | 2                    | 13                      |
| Body mass index (kg/m²)   | 22.00 ± 1.13     | 25.88 ± 0.81         | 28.93 ± 2.21            |
| Insulin (U/L)             | 5.2 ± 2.5*       | 23.20 ± 12.58        | 33.26 ± 19.65           |
| Triglycerides (mg/dL)     | 108.02 ± 6.26    | 131.25 ± 16.48       | 209.89 ± 34.03          |
| ALT (U/L)                 | 22.82 ± 2.92     | 29.86 ± 5.02         | 85.89 ± 13.87           |
| AST (U/L)                 | 19.70 ± 1.42     | 22.31 ± 1.75         | 52.43 ± 11.92           |
| γ-GT (U/L)                | 32.60 ± 7.03     | 69.25 ± 13.06        | 100.02 ± 26.30          |
| Steatosis (%)             |                  |                      |                         |
| Grade 0                   | 8 (100%)         |                      |                         |
| Grade 1                   | 6 (100%)         |                      |                         |
| Grade 2                   |                  | 7 (25%)              |                         |
| Grade 3                   |                  | 21 (75%)             |                         |
| Ballooning (%)            |                  |                      |                         |
| Grade 0                   | 8 (100%)         |                      |                         |
| Grade 1                   | 6 (100%)         |                      |                         |
| Grade 2                   |                  | 7 (25%)              |                         |
| Grade 3                   |                  | 21 (75%)             |                         |
| Lobular inflammation (%)  |                  |                      |                         |
| Grade 0                   | 8 (100%)         |                      |                         |
| Grade 1                   | 6 (100%)         |                      |                         |
| Grade 2                   |                  | 7 (25%)              |                         |
| Grade 3                   |                  | 21 (75%)             |                         |
| Kit                                           | Kit                                      |
|-----------------------------------------------|------------------------------------------|
| Mouse IL-1 beta Platinum ELISA kit            | R&D Systems, MLB00C                      |
| Mouse TNFα Platinum ELISA kit                 | R&D Systems, MTA00B                      |
| Mouse IL-6 Platinum ELISA kit                 | R&D Systems, M6000B                      |
| Mouse IL-8 Platinum ELISA kit                 | R&D Systems, D8000C                      |
| Mouse IL-17 Platinum ELISA kit                | R&D Systems, M1700                       |
| Mouse IL-18 Platinum ELISA kit                | R&D Systems, 7625                        |
| Antibody   | Source    | Code   |
|------------|-----------|--------|
| IKKα       | CST       | 2628S  |
| Phospho-IKKα | CST     | 2697S  |
| IKKβ       | abcam     | ab55404|
| P65        | CST       | 8242S  |
| Phospho-P65 | CST     | 3033S  |
| SOCS2      | CST       | 2779S  |
| NLRP3      | abcam     | ab214185|
| Caspase-1-P20 | Proteintech | 22915-1-AP |
| β-actin    | Proteintech | 66009  |
| Bax        | CST       | 14796S |
| Bcl-2      | CST       | 3498S  |
| Gene   | Species | Forward Primer | Reverse Primer |
|--------|---------|----------------|----------------|
| IL-1b  | Mus     | GCAACTGTTCCTGAAACTCAACT | ATCTTTTGGGGTCCGTCGAAT |
| TNFa   | Mus     | CCCTCACACCTCAGATCATCTTCTT | GCTACAGAGTGTTGGTAAGGAC |
| IL-6   | Mus     | CCAAGGAGTGATGCTTTCCC | CTGGTATTCCAGACCTCCTCC |
| IL-8   | Mus     | CAAGGCTGTTCCTGACTTCT | CTGGTATTCCAGACCTCCTCC |
| IL-17  | Mus     | TTTAACTCCCTTGGGCACAAA | CTGTTCCCTCCGACATTGAC |
| IL18   | Mus     | TTTAAGACCTTCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| SOCS2  | Mus     | AGTTCCGATCCACTTCCTCC | CTGGTATTCCAGACCTCCTCC |
| β-actin | Mus     | GCTGTATTCCCTCCATCG | CCAGTTGGAACACACTCCTCC |
| SOCS2  | Ho      | ATGATGGCTTATTACATGGGCAA | TGCTGCTTTAGACCTCCTCC |
| IL-1b  | Ho      | ATGAGGCTTATTACATGGGCAA | TGCTGCTTTAGACCTCCTCC |
| TNFa   | Ho      | CCTCTCTCAAATCAGCTCCCTTCC | CTGGTATTCCAGACCTCCTCC |
| IL-6   | Ho      | ACTCACCTCTTCCAGATGTTGGAC | TGCTGCTTTAGACCTCCTCC |
| IL-8   | Ho      | ACTGAGGCTTATTACATGGGCAA | TGCTGCTTTAGACCTCCTCC |
| IL-17  | Ho      | AGTTCCGATCCACTTCCTCC | CTGGTATTCCAGACCTCCTCC |
| CCL8   | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| GCNT3  | Ho      | AGTTCCGATCCACTTCCTCC | CTGGTATTCCAGACCTCCTCC |
| CCL3   | Ho      | GATCAGACCTTCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| CISH   | Ho      | GAACTGACCCAGCCATCCCTTCC | CTGGTATTCCAGACCTCCTCC |
| ADAM19 | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| RC3H1  | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| FOSB   | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| CLCF1  | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| PANX2  | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| HAS2   | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| PRICKLE4 | Ho    | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| PDP1   | Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |
| β-actin| Ho      | GAGGGCTGTTCCTGACCTCCTCC | CTGGTATTCCAGACCTCCTCC |