

| Gene    | Forward (5'-3')             | Reverse (5'-3')              |
|---------|-----------------------------|------------------------------|
| siLuc   | CGUACGCGGAAUACUUCGA(dT)(dT) | UCGAAGUAUUCCGCGUACG(dT)(dT)  |
| siKDM6A | GACAACAAGGCAUUACCUU(dT)(dT) | AAGGUA AUGCCUUGUUGUC(dT)(dT) |
| siHNF4A | CCAAGAGAUCCAUGGUGUU(dT)(dT) | AACACCAUGGAUCUCUUGG(dT)(dT)  |
| siCREBH | CCUGUACGAGUGUUCUCCA(dT)(dT) | UGGAGAACACUCGUACAGG(dT)(dT)  |
| siKMT2C | CAGCUAAGAAGAUCAUAU(dT)(dT)  | AUACUGAUCUUCUUAGCUG(dT)(dT)  |
| siKMT2D | CAUCUACAUGUCCGAAUA(dT)(dT)  | UAUUCGGAACAUGUAGAUG(dT)(dT)  |
|         |                             |                              |

Supplementary Table 1: siRNA for human cell lines.

|                |                               |                                |
|----------------|-------------------------------|--------------------------------|
| human primers  |                               |                                |
| Gene           | Forward (5'-3')               | Reverse (5'-3')                |
| <i>APOA1</i>   | CCCTGGGATCGAGTGAAGGA          | CTGGGACACATAGTCTCTGCC          |
| <i>APOM</i>    | GCTACCATCCGCATGAAAGAT         | CTGGCCTGTCTCATTTCAGCA          |
| <i>APOH</i>    | ATACAATTACCTGCACGACACAT       | GGCCATCCAGAGAATATCCATCA        |
| <i>KDM6A</i>   | GGACATGCTGTGTCACATCCT         | CTCCTGTTGGTCTCATTGTTGGTG       |
| <i>HNF4A</i>   | CACGGGCAAACACTACGGT           | TTGACCTTCGAGTGCTGATCC          |
| <i>APOC1</i>   | TCCAGTGCCTTGGATAAGCTG         | GGCTGATGAGTTCCCGAGC            |
| <i>APOC2</i>   | TGTCTCCTGGTATTGGGATTT         | TGTCTTCTCGTACAGGTTCTGG         |
| Mouse Primers  |                               |                                |
| Gene           | Forward (5'-3')               | Reverse (5'-3')                |
| <i>Apoa1</i>   | GCTCAAGAGCAACCCTACCTT         | GCTTTCTCGCCAAGTGTCTTC          |
| <i>Apom</i>    | TAACTCCATGAATCAGTGCCCT        | CCCGCAATAAAGTACCACAGG          |
| <i>Apoh</i>    | TGCCATGTTGCTATTGCAGGA         | GGCTTGCAAGGAGTAGACAATCT        |
| <i>Kdm6a</i>   | CGGGCGGACAAAAGAAGAAC          | CATAGACTTGCATCAGATCCTCC        |
| <i>Shp</i>     | CTCTTCAACCCAGATGTGCCA         | CAGGGCTCCAAGACTTCACA           |
| <i>Bsep</i>    | CGCATTGCTATTGCTCGGG           | CAAGCTGCACTGTCTTTTCACTT        |
| <i>Ntcp</i>    | TTGCGCCATAGGGATCTTCC          | ATCATGCCTGCCTTGAGGAC           |
| <i>Srebp1c</i> | ATCGGCGCGGAAGCTGTGCGGGTAGCGTC | ACTGTCTTGGTTGTTGATGAGCTGGAGCAT |
| <i>Srebp2</i>  | GCAGCAACGGGACCATTCT           | CCCCATGACTAAGTCCTTCAACT        |
| <i>Abca1</i>   | GCTTGTGTCCTCAGTTAAGG          | GTAGCTCAGGCGTACAGAGAT          |
| <i>Baat</i>    | CCAGTCTTCTGGCAAGTCGT          | GCCGAGGACCTTAGGATGTC           |
| <i>Pcsk9</i>   | TTGCCCATGTGGAGTACATT          | GGGAGCGGTCTTCCTCTGT            |
| <i>Ldlr</i>    | TGACTCAGACGAACAAGGCTG         | ATCTAGGCAATCTCGGTCTCC          |
| <i>Cyp7a1</i>  | GCTAAGACGCACCTCGTGAT          | TCAGGGCTCCTGATCATTGAA          |
| <i>Cyp8b1</i>  | TCTTTGCCCTCAGCGAGATG          | CTAGGCTGTGAGGTGCCAAA           |
| <i>Rplpo</i>   | AGATTGCGGATATGCTGTTGGC        | TCGGGTCCTAGACCAGTGTTTC         |
| <i>Dgat2</i>   | TTCCTGGCATAAGGCCCTATT         | CCTCCAGACATCAGGTAATCG          |
| <i>Abcc6</i>   | TGCGGCCTATCACTTGCTC           | CCAGCACCATTTTGGTTTTGAA         |
| <i>Apoa5</i>   | TCCTCGCAGTGTTCGCAAG           | CGAAGCTGCCTTTCAGGTTCT          |
| <i>Scap</i>    | CCGAGCATTCCAAGTGGTG           | CCATGTTCTGGGAAGTAGGCT          |
| <i>Lcat</i>    | GTAACCACACACGGCCTGTC          | TCTTACGGTAGCACATCCAGTT         |
| <i>Mrp2</i>    | ACATCTGCTTCCCTTGAGGC          | AGAGATTCCAAAAAGTAGAGTTGC       |

Supplementary Table 2: Human and mouse qPCR primer sequences.