## Supplementary Table 1: Primer sequences

| Primer ID     | Forward                                             | Reverse                                           |
|---------------|-----------------------------------------------------|--------------------------------------------------|
| **Crispr/Cas9 targeting**                  |                                                     |                                                  |
| sgRNA2_26a-1  | CACCGTG GCCCTGTTCAAGTATCC                           | AAACGGATTACTTGGAACGAGGCCAC                      |
| sgRNA2_26a-2  | CACCGCGG TTGATCTTACAAGTATCC                         | AAACGGATTACTTGGAACGAGGCCG                       |
| sgRNA2_26b    | CACCGGACCCGATTTCAAGTATCC                           | AAACGGATTACTTGGAACGAGGCCG                       |
| T7_miR-26a-1  | TTAATACGACTCTATAGGGGAGAGTACAGTTCAAGTATCC           | AAAGACCCGACTTCTGTTGAGCC                        |
| T7_miR-26a-2  | TTAATACGACTCTATAGGGGAGAGTACAGTTCAAGTATCC           | AAAGACCCGACTTCTGTTGAGCC                        |
| T7_Cas9       | TTAATACGACTCTATAGGGGAGAGTACAGTTCAAGTATCC           | AAAGACCCGACTTCTGTTGAGCC                        |
| Suva_26a-1    | GCCGGTTG TTTGTTGTTCTAAAG                           | AGAGAGGGGCGAGGAGGAATAG                         |
| Suva_26a-2    | CATAGACT GTGTTGAGCCGAGTTAG                         | ATCGACGTAAGGCTTCCATGAC                        |
| Suva_26b      | CATCCCGGG TGGATAGTAGAT                             | CCGCTTTGCTGAGAAGACCAT                        |
| **Mouse genotyping**                        |                                                     |                                                  |
| R26R-WT       | AAGGGAGCCTGAGTGGAGTA                               | CCGAAAATCTGTTGGAAGTC                          |
| R26R-tdTomato | GCAATTTAAGCAGGCTATCC                               | CTGTTCCGTAAGGCAATG                            |
| Cre           | CCGCGAGA ACTGAGGTTATGC                             | CCGCTATAGTAAGCAGGTTG                          |
| M2rtTA        | CCTGACTG CGAGCAGTGAAGA                            | GTCTCGAAAGTGAGGGCCATA                         |
| miR-26a-Tg    | ATCCACGCTGCTGCTATGC                               | AAGTGTGCGTCTGCTGATG                          |
| miR-26a-Tg_LSL| CATCAGTCTGCTGCTGAGGTC                             | ATCCAGCCACAGGCTCTATG                          |
| miR-26a-1_KO  | CTCAGAGAAGAGGCAATGCA                              | CTGTGGACAGTCAGCAGGAT                          |
| miR-26a-2_KO  | GCCGCTCTGCTGAGACTCCG                             | ATCTCGATAGGGAAGACAC                          |
| **qRT-PCR**                                           |                                                     |                                                  |
| CebpA         | GGGCAAGCGGCAAGAGATG                               | CGTACCGGTAGCTTCTGCTG                          |
| Sreb1c        | GGAACATGCTGCACTAGCATT                             | GCGCCGGAAATCTGTGCT                            |
| Pparg1        | GTGTGACGAGCAGAAGGTA                               | GCTTGATGTCAAAGGATG                            |
| Pparg2        | ACAAGCAATC TCTGTTATGC                             | GCTTGATGTCAAAGGATG                            |
| Retn          | AGACTGCTGTGCTTCTTG                                | CCGCTTTTCTTTTCTTTCTTCT                        |
| Glut4         | CTCATGCGGCCAGCATAAG                               | GCGGAGTACCTCCTGCCACAT                        |
| Adipoo (Adipn)| GACAGGTACGCCAGGACATC                              | GCGTACGACTCTGCTGCT                            |
| Adiposin (CFD)| ACGAAGCAGGAGGAGGAGGAGGAGGGAGGAGGAGGAGGAGGAGGAGGAG | GCGAGCATGACCTTGCTGCT                          |
| Leptn         | AAGACCATGCTCAGAGGATC                               | GGTACCGGTAGGCTGCTG                           |
| Fasn          | CAGGCAGGACACTTGCAGC                               | TCCGCTGCAACACTGCG                            |
| Fabp4         | CTGGGCTGTAATGCAGT                                 | GCTCTCTCAGCTTCTTGCT                           |
| Lpl           | AGGACCCTG GAAGACAC                                 | GGACACCAATCTCTAT                             |
| 18S           | GTAACCCGCCGTTGAAACCCAT                             | CCATTGAGACCTTGAGATG                           |
| Fbx19         | TGCCCTCCAAAAAGCAGCCTAT                             | CACCCGAGAAGAGACACAC                           |
| StradB        | GCACACAAATTGGCTGTATCC                              | ACAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG | |
| Ctdsp1        | TCAGGCGTACTTCTGCAATG                               | AACTGCTGACGTCTTGTCACACT                      |
| Ctdsp2        | CTCCTCAGCTGCTGACACA                                | GACACTGAGGAGGAGTACACAT                      |
| Ctdsp1        | GGTCATT CCTGCAGAAGGACAC                            | ATAGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG | |
| **Luciferase Reporter**                       |                                                     |                                                  |
| Fbx19_Reporter| CCGCGACTCTA GATTTCAGTTTCCGCCACCTTG                 | CCGCGACTCTA GATTTCAGTTTCCGCCACCTTG            |