**Supplementary file 1. List of primers**

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| **Cloning primers** |
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| TET1 1-654aa. S  | CCGCTCGAGATGTCTCGATCCCGCCATGCAAGG |
| TET1 1-654aa. A | CCCTCTAGATCAAACTTTGGGCTTCTTTTCCCT |
| TET1 620-1590aa. S  | CCGCTCGAGATGAAGAAAAGAAAATGTGAGGAG |
| TET1 620-1590aa. A  | CCCTCTAGATCAAAACTTACAGCCATTAAAGTA |
| TET1 1418-2138aa. S | GCTGAATTCATGGAACTGCCCACCTGCAGCTGTC |
| TET1 1418-2138aa. A  | CCCTCTAGATCAGACCCAATGGTTATAGGGCCC |

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| **Real time PCR primers** |
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| *G6PC*. S | GCAGGTGTATACTACGTGATGGT |
| *G6PC*. A | GACATTCAAGCACCGAAATCTG |
| *PPARGC1A*. S | TGACTGGCGTCATTCAGGAG |
| *PPARGC1A*. A | CCAGAGCAGCACACTCGAT |
| *SLC2A4*. S | GGGAAGGAAAAGGGCTATGCTG |
| *SLC2A4*. A | CAATGAGGAACCGTCCAAGAATG |
| *TET1*. S | GGAATGGAAGCCAAGATCAA |
| *TET1*. A | ACTCCCTAAGGTTGGCAGTG |
| *PCK1*.S | ATCCCCAAAACAGGCCTCAG |
| *PCK1*. A | ACGTACATGGTGCGACCTTT |
| *ACTB*. S | TACTGCCCTGGCTCCTAGCA |
| *ACTB*. A | GCCAGGATAGAGCCACCAATC |
| *Sirt1*. S | CAGACCCTCAAGCCATGTTT |
| *Sirt1*. A | CTTTGGATTCCTGCAACCTG |
| *Sirt6*. S | ATCTTCGACCCACCAGAGG |
| *Sirt6*. A | GCATTCTCGAAGGTGGTGTC |
| *Tet1*. S | GACCCTCATAAGCAGAGAGGAAA |
| *Tet1*. A | TGACACCAGAGAAAGGACGC |
| *G6pc*. S | AAGAGCGCAACAGTTCCCTT |
| *G6pc*. A | CTCTGGCCTCACAATGGGTT |
| *Slc2a4*. S | GGGAAGGAAAAGGGCTATGCTG |
| *Slc2a4*. A | CAATGAGGAACCGTCCAAGAATG |
| *Ppargc1a*. S  | TCTCAGTAAGGGGCTGGTTG |
| *Ppargc1a*. A | AGCAGCACACTCTATGTCACTC |
| *Actb*. S | CTACCTCATGAAGATCCTGACC |
| *Actb*. A | GAACCGCTCGTTGCCAATAGTG |
| *ALDH1A3*. S | GGGCCTCAGATCGACCAAAA |
| *ALDH1A3*. A | GCTGCACTGGTCCGAAAATC |
| *ALDOA*. S | AGCTGAATAGGCTGCGTTCT |
| *ALDOA*. A | GACAGGCGGGTCATGTTGAA |

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**hMeDIP PCR primers**

*G6PC*.S ATGGCCGATCAGGCTGTTTT

*G6PC*.A CCAGCCCTGATCTTTGGACT

*PPARGC1A*.S GATTGGCAATGGGAGCAACC

*PPARGC1A*.A AGACACATCGTGCTGTCAGG

*SLC2A4*.S AACTTGGCAATTGGGGCAAC

*SLC2A4*.A GCTGCCACTTCAGTCCAGAT