**Additional files 3.** Primers used in this study

|  |  |
| --- | --- |
| **Primer Name** | **Primer sequence(5’——3’)** |
| **F** | **R** |
| Cloning Primers |  |  |
| 2AB-IGF2BP2-CDS2AB-IGF2BP3-CDS | GGGGTACCATGATGAACAAGCTTTACATCG(Kpnl)GGGGTACCATGAACAAACTGTATATCGGAAACC(Kpnl) | ATAAGAATGCGGCCGCTCACTTGCTGCGCTGTGAG(Notl)ATAAGAATGCGGCCGCTTACTTACTTCCGTCTTGACTGAGGTG(Notl) |
| Q-PCR Primers |  |  |
| ALKBH5(homo) | CGGCGAAGGCTACACTTACG | CCACCAGCTTTTGGATCACCA |
| ALKBH5(mouse) | GCGCGGTCATCAACGACTA | ATCAGCAGCATACCCACTGAG |
| CUL3(homo) | TGTGGAGAACGTCTACAATTTGG | GCGCCTCTGTCTACGACTT |
| CUL3(mouse) | GAGATCAAGTTGTACGGTATGGG | GCTCTCTGGCAATCATATCCAAT |
| FTO(homo) | ACTTGGCTCCCTTATCTGACC | TGTGCAGTGTGAGAAAGGCTT |
| FTO(mouse)GAPDH(homo)GAPDH(mouse)KEAP1(homo)KEAP1(mouse)METTL3(homo)METTL3(mouse)METTL14(homo)METTL14(mouse)Nrf2(homo)Nrf2(mouse)Nrf2 Primer1(homo)Nrf2 Primer2(homo)Nrf2 Primer3(homo) | GACACTTGGCTTCCTTACCTGTGTGGGCATCAATGGATTTGGAATGGATTTGGACGCATTGGTCTGGAGGATCATACCAAGCAGGCGGGGACGCAGTGATGTATGTTGTCTCCAACCTTCCGTAGTCTGGGCACTTGGATTTAAGGAAAGTGCCGACAGCATTGGTGGAGCTGAGAGTGCGGATAGCTCAGCGACGGAAAGAGTATGACTTTAGTCAGCGACAGAAGGACCTGGTCATCGGAAAACCCCACTCCACAGAAGACCCCAACCGCTGAGCCCAGTATCAGCAA | CTCACCACGTCCCGAAACAAACACCATGTATTCCGGGTCAATTTTGCACTGGTACGTGTTGATGGATACCCTCAATGGACACCACTGTGTAGCTGAAGGTTCGGTTACCAGATCAGAGAGGTGGTGTAGTGAGAGGTGGTGTAGCAACTTGGAGCAGAGGTATCATAGGAAGCGCAGATGTATCATAGGAAGCCC CCACTGGTTTCTGACTGGATGT AGGCATCTTGTTTGGGAATGTGTGGAGAGCTTTTGCCCTAAGTAGGGCATGCTGTTGCTGATAAGGGTGGTTTTGGTTGAAAGC |