

Supplementary Table 1: Primers of RT-qPCR.

Targeting genes	Sequences of primers	Annealing temperature (°C)	Product length (bp)
GAPDH(MOUSE)	F:5' CACTGAGCAAGAGAGGCCCTAT3' R:5' GCAGCGAACTTTATTGATGGTATT3'	60	144
Crk	F:5' TCTCCGTGAAGCCTACGAACT3' R:5' TCTTGAGGTCCAATAACTGCTACAC3'	60	103
Acvr2a	F:5' TATCTCTTGCTCTTCAGGTGCTA3' R:5' TCGCCGTTTATCTTTATCACCC3'	60	136
Ank3	F:5' AAGCAGGGAGAAGGCTATAAGGT3' R:5' CCACACTCCACTCTTGGTACTAT3'	60	171
Bmp4	F:5' CCGAGCCAACACTGTGAGGAG3' R:5' TTTATACGGTGAAGCCCTGT3'	60	107
Lats1	F:5' AAGAGTGC GGACAGTGGTGAC3' R:5' CTTGAGATAATCCAACCCGCAT3'	60	224
Tiam1	F:5' GGCTGTCAATCTACGAGGAGTG3' R:5' GCATACCGCATTTCCTCT3'	60	113
Anp32b	F:5' GAACTTCCAAGCCTCACACATCT3' R:5' GCCTGAAGACAGTTTCTCGGTAA3'	60	157
Tbc1d15	F:5' GCTATGAAGCGGAGTGGGA3' R:5' CCAGGCTGAACAGGAACGA3'	60	120
Ncoa1	F:5' CAGGTGGAAACGCAAACATT3' R:5' CCTGTGTCTCAGTGCTGGAT3'	60	130
Hinfp	F:5' AGTGTGGCTGAAAGGCTGTA3' R:5' GAACACTGGAATCGCTGCTGA3'	60	187
Gabbr1	F:5' TGGTTTTCATCGGGTGGTAT3' R:5' CAGCCGCTTGTTAGTTTCTC3'	60	195
Jade1	F:5' GCCTGAGGAAGTGGTGGATT3' R:5' CCAAGAGCTTAGTGTACTGAGTGAA3'	60	278
Sgo2a	F:5' CCAAGCCTTAGAAGCAAGATGA3' R:5' TTGAGAACTCGGGAAAACCCAG3'	60	76
Pdk4	F:5' TCAGGTTATGGGACAGACGCTAT3' R:5' CTTCTCCTTCGCCAGTTCTT3'	60	168
Cenpf	F:5' CCAGTGGGATTTGGGAGCAT3' R:5' CTTGTCTTCCAGTTGGGATGTC3'	60	190
Bmp4 (mazF)	F:5' CGGTGGGAACTTTCGATGTG3' R:5' CTTCTGCGGGTCAAGGTATGG3'	60	233
Cenpf (mazF)	F:5' ACTAGAGAAGGGGGAGAAAGAGAT3' R:5' TCTGCTCCAGTGCCATAGTCA 3'	60	155
Lats1 (mazF)	F:5' GCTTACCCAAGGAAGATGATAGTG 3' R:5' TCTTTATCCCCAGAGTACCAC3'	60	61

Pdk4 (mazF)	F:5' CAAACCTTGACCTGATGAGGG3' R:5' CGGGTCATCCAACCAAGCTC3'	60	44
ALKBH5	F:5' CGGTCATCATTCTCAGGAAGACA3' R:5' GAGCTAAAACCTCCCCTCCG3'	60	259
FTO	F:5' CTTACCAGGGGAGACTGCTAT 3' R:5' AGTGGAATAAACCGAGGCT 3'	60	96
HNRNPA2B1	F:5' AGACTGTGTGGTTATGCGGG3' R:5' TTCACAGTCACATGGGCTCC3'	60	192
HNRNPC	F:5' CAGAACACCTTCTCCGTCC 3' R:5' ACCACAGCTCGAGCAATAGG 3'	60	136
IGF2BP2	F:5' TTCGACTGGACTGTCTGTGC3' R:5' TCGAGCGAGCTGTTTGTATGT3'	60	244
IGF2BP3	F:5' GGATCGGTGTCCAAGCAGAA3' R:5' TGTTGCGAATGGTAGCACCT3'	60	106
METTL3	F:5' GGTTCGTTCACCAGTCATA3' R:5' CTAGTAGGTGTATCCCATCCAG3'	60	155
METTL14	F:5' TCGCAAAGTGGGGTTACAGAA3' R:5' ATGAAGTCCCCGTCTGTGCT3'	60	172
METTL16	F:5' GACAAACCACCTGACTTCGCA3' R:5' TCTGACTGCTTCGGGGTCTT3'	60	117
RBM15	F:5' CCAAGGCACTGGCCAAATCT3' R:5' TCATCCGCTGTTACCAGTTT3'	60	77
RBM15B	F:5' GACTATTACGGGCTGTACGACG3' R:5' CAGGTTGCCGATGAAGAGGT3'	60	120
RBMX	F:5' AAGCTGCAAACCGATGCTTG3' R:5' TGCTGTTTACGGGCATTTG3'	60	206
VIRMA	F:5' CAGGTTTTTACACCGCCTG 3' R:5' TAGGGCGGTAACCCGTAGAA 3'	60	185
WTAP	F:5' AAAGGTCCGACTGAGTGAAAC 3' R:5' CACTCTTGATCTCCTGCTCT 3'	60	243
YTHDC1	F:5' GATGATTTCTTCGCGCAC3' R:5' CGATCACGACCTCTGTCTCG3'	60	134
YTHDC2	F:5' CTGAACCGCTCCAGCTTTA3' R:5' AAAGGGTACGGTAAGCGAG3'	60	217
YTHDF1	F:5' ATGCCAACCTACTTCTGCC3' R:5' GAACCCCGCCACTCTTAA3'	60	119
YTHDF2	F:5' CAGCTCTCAGTCCAGCAACA3' R:5' AGTAGATCCAGAACCCGCCT3'	60	132

YTHDF3	F:5' GGGTCAGTGGTAAAGGCTCC3' R:5' TGCAACTGTGGCTGTTGAGA3'	60	206
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