

Table S6 Primer sequence information of *METTL3* and *FTO* genes

METTL3:

B9711-1	AGGGTTCCAAGCTTAAGCGGCCGCGCCACCATGTCGGACACGTGGAGCTCTATCCAGGCCCA
B9711-2	TCCGCCTCCGCTGCAGCCTCTCCCGCAGTGAGTCCAGCTGCTTTTGTGGGCCTGGATAGAGCTC
B9711-3	GCAGCGGAGGCGGAAGCAGGACTCGGGGCACTTGGATCTTCGGAATCCAGAGGCAGCACTGTCTC
B9711-4	ACCAGAAGTGGGTGCAGCAGGTACTGGGCTGTCGCTACGGAAGGTTGGAGACAGTGTGCCTCTG
B9711-5	GCTGCACCCACTTCTGGTGGCCCCAAGCCAGTACAGCTTCAGCAGTTCCTGAACTAGCTACAGA
B9711-6	CAGATCAGAGAGGTGGTGTAGCAACTTCTTCTAATTCAGGGTCTGTAGCTAGTTCAGGAACTG
B9711-7	CTACACCACCTCTCTGATCTGTCACTAACATTGCCACTGATGCTGTGTCTATCCGTCTTGCCAT
B9711-8	AGGCTTTCTACCCCATCCTGAGTGGCAGGGGCATCTGGCGTGGAGATGGCAAGACGGATAGACAC
B9711-9	AGGATGGGGTAGAAAGCCTCCTACAGAAGTTGCCGCTCAGGAGTTGATCGAAGTAAAGCGAAGT
B9711-10	CAGCATAGGTCACAAGAGTGGGATGTGCATCGTCTTGTAGGAGACTTCGCTTTACTTCGATCAAC
B9711-11	CCACTCTGTGACCTATGCTGATCATTCGAAGCTCTCCGCCATGATGGGTGCTGTGGCAGAAAAG
B9711-12	GCCGCTTCTGCCCTGCAATAGTCCCTGCTACCTCCCCAGGGCCCTCTTTTCTGCCACAGCACCC
B9711-13	CAGGGCAGAAGCGGCGTGCAGAGCAGGACTCCACCACAGCAGCTGCCTTTACTAGCTCTTTGGCC
B9711-14	CTTTGGCTCCTTGGCTACTTCTGATGTGGAAGAGCCAGACCAGAGGCCAAAGAGCTAGTAAAGG
B9711-15	AAGTAGCCAAGGAGCCAAAGAAATCAAGAAAACATGCTGCCTCAGATGTTGATCTGGAGATAGAG
B9711-16	TTGCTCTGTTGTTCTTAGTAGATTGTTGGTTAAGAAGGCTCTCTATCTCCAGATCAACATCTGA
B9711-17	TCTACTAAGGAACAACAGAGCAAGAAGGTTAGTCAGGAGATCCTAGAGTTACTAAATACTACAAC
B9711-18	GAGCGAACTTTTCAACAATGGATTGTTCTTGGCTGTGTAGTATTTAGTAACTCTAGGATCTC
B9711-19	CCATTGTTGAAAAGTTTCGCTCACGAGGTCGGGCTCAAGTTCAAGAGTTCTGTGACTATGGAACC
B9711-20	GACAGGGCCGGTCAGCATCACTGGCTTTCATACACTCCTCCTGGTTCCATAGTCACAGAACTCT
B9711-21	GCTGACCGGCCCTGTCGAAAGCTGCACTTCAGACGGATCATCAATAAACACACTGATGAGTCATT
B9711-22	ATCCATGTGGAAACATGTGTTAAGGAAAGAGCAGTCTCCTAATGACTCATCAGTGTGTTATTGA
B9711-23	TTAACACATGTTTCCACATGGATACCTGCAAATATGTTCACTATGAAATTGATGCTTGATGGAT
B9711-24	GCTCTTGGCTTGGTGTATGGTCTTTGCTTCCAGGAGCCTCAGAATCCATGCAAGCATCAATTCA
B9711-25	CCATACACCAAGCCAAGAGCTTGCCCTTACACAGAGCGTTGGAGGTGACTCCAATGCAGATCGAC
B9711-26	CGTCCAGGTAGCGGATATCACAACAGATCCACTGAGGTGGGAAGAGTCGATCTGCATTGGAGTCA
B9711-27	TGATATCCGCTACCTGGACGTCACTATCTTGGGCAAGTTGCAGTTGTGATGGCTGACCCACCCT

B9711-28	TCTCATCATCTGTCAGGGTCCCATAGGGCAGCTCCATGTGAATATCCCAGGGTGGGTGAGCCATC
B9711-29	GACCCTGACAGATGATGAGATGCGCAGGCTCAACATACCAGTACTGCAGGATGATGGCTTTCTCT
B9711-30	GACATTCTCTGCCCAACTCCATGGCCCTGCCTGTGACCCAGAGGAAGAGAAAGCCATCATCCTGC
B9711-31	GGAGTTGGGCAGAGAATGTCTGAACCTCTGGGGTTATGAACGGGTAGATGAAATTATCTGGGTGA
B9711-32	TGTGCGGCCCTGTTTCAATGATGCGCTGCAGTTGATTTGTCTTCACCCAGATAATTTTCATCTACCC
B9711-33	TTCGAACAGGCCGCACAGGTCACTGGTTGAACCATGGGAAGGAACACTGCTTGGTTGGTGTCAAA
B9711-34	GATCACATCACAATCCAGACCCTGGTTGAAGCCTTGGGGATTTCCTTTGACACCAACCAAGCAGT
B9711-35	GGGTCTGGATTGTGATGTGATCGTAGCTGAGGTTTCCTTCCACTAGTCATAAACCAGATGAAATCT
B9711-36	ATCTTGCGAGTGCCAGGGGACAGTCTTTCAATCATGCCATAGATTTCATCTGGTTTATGACTAGT
B9711-37	CCCTGGCACTCGCAAGATTGAGTTATTTGGACGACCACACAATGTGCAACCCAACTGGATCACCC
B9711-38	ACCACATCTGGGTCTAGTAGGTGGATCCCATCCAATTGGTTTCCAAGGGTGATCCAGTTGGGTG
B9711-39	CCTACTAGACCCAGATGTGGTTGCCCGGTTCAAGCAAAGATATCCAGATGGTATCATCTCTAAAC
B9711-40	GATCCATCCCTAGGTAGATGCATCTATAGATTCTTAGGTTTAGAGATGATACCATCTGGATAT

FTO:

B9713-1	AGGGTTCCAAGCTTAAGCGGCCGCGCCACCATGAAGCGGACCCGACGGCCGAGGAACGAGAGC
B9713-2	AGCCATGTGTCTTCAAGCTCTTCAAGAAGCCTCAGTTTCTTAGCTTCGCGCTCTCGTTCTCGGC
B9713-3	GAGCTTGAAGACACATGGCTTCCCTACCTGACCCCAAAGACGATGAATTCTATCAGCAGTGGCA
B9713-4	GCACGCTGGCAGCTTCTCGGAGAATCAGTTTAGGATATTTTCAGTTGCCACTGCTGATAGAATTCA
B9713-5	GAAGCTGCCAGCGTGCCCGAGTTGCTCCATAAAGAGGTTCAACAAGCCTTTCTCACACTGCACAA
B9713-6	TCTTTGCCCTGGATCCTCACCAGATCTCGAAATAAACAGCCATGCTTGTGCAGTGTGAGAAAGGC
B9713-7	TGAGGATCCAGGGCAAAGACTTGCTCACTCCAGTCTCTCGCATCCTCATCGGTAACCCTGGCTGC
B9713-8	CACGGGCCAGGGTACCGTGAAGAGCCTGGTGTTTCAGTACTTGTAGGTGCAGCCAGGGTTACCGA
B9713-9	GGTACCCTGGCCCGTAAAGGCTCTGATGCAAAGTACATGAGGCCGAAATAGCTGTGCGCTGTC
B9713-10	GGATGGTCTCTACCTGCAGGTAACCTGTTGAGCTTGAGGAAGGTTTGACAGGCGACAGCTATTTCG
B9713-11	CTGCAGGTAGAGACCATCCAGGCTTTGGAAGAGCTTGCTGCCAAGGAGAAAGCCAACATCGATGC
B9713-12	CCCATGCCAACCCCTGGGGAAATCTGGACCTATGCACACTGGCACAGCATCGATGTTGGCTTTCTC
B9713-13	CCAGGGTTGGCATGGGGTCCCTCTTTGACGGGCAGATGAGATTGACATGAAGAACCGAGCAGCG
B9713-14	TACGGCATTTTCTGGGGATCCATGAAATTCAACAAAGTGACGTTGTACGCTGCTCGGTTCTTCAT

B9713-15	GATCCCCAGAAAATGCCGTACCTGAAAGAGGAACCATATTTCCGGCATGGGGAAAATGGCCGTGAG
B9713-16	ACACTGCCACCGCTGACCTGTCCACCAGATTTTCATCATGATGCCAGCTCACGGCCATTTTCCCC
B9713-17	TCAGCGGTGGCAGGTACAGTTATAGCTGTGAAGGCCCTGAAGAGGAAAGTGAGGATGACCCTCA
B9713-18	ATCTTAAACCAACGTGCCAAATATCAGGATCTCTGCCTTCAAGCTGAGGGTCATCCTCACTTC
B9713-19	TTGGCACGTTGGTTTAAAGATCTCGTGGGACATAGAGACACCTGGGTTGGCGATACCCCTTCACC
B9713-20	TTGGTGGGTGGCATTGAGATCATCAAGCATAAAATAGCAGTCTCCTTGGTGAAGGGGTATCGCCA
B9713-21	CTCAATGCCACCCACCAACTGTGTTTTGGCTGGTTTACCACCTCGCTTAGTTCCACCCACCG
B9713-22	GCGCTGTAAGATGTATTCCAAGGTCCCCGTCGAGCACTCTGCCACTCGGTGGGTGGAATAAAGC
B9713-23	CTTGGAATACATCTTACAGCGCTGCCAGGTGGCCCTGCAGAATGTCCGCGAAGAGGCAGACAACG
B9713-24	TCCTTGTTTCAAAACCACTGACTCCAAGGATTTCAAAGAGATTTACCGTTGTCTGCCTCTTCGC
B9713-25	GTCAGTGGTTTTGAAACAAGGAGAAGAGATCCACAACGAGGTCGAGTTTGAATGGCTGAGACAGT
B9713-26	CCACCAGTCAGTGCACTTTTTGTATCGACTGCCTTGAAACCAGAACTGTCTCAGCCATTCAAACCT
B9713-27	AAAGTGCCTGACTGGTGGTGTGAGCCCATGAGTCAGCTGGAAGAGATGTGGAGAAAGATGGAGT
B9713-28	ACCCCTCTCTTCTAACTTCACGAAGCACAGCGCTTGTGAGCCACTCCATCTTCTCCACATCTC
B9713-29	TGAAGTTAGAAGAGAGGGGGTCCCCATGGAACAAAAGAATGAGATGTTGACGTCCATCCTCGCCT
B9713-30	GGCACCTGGCATGCCATTCTCTCCTCAGGTTCTGGCGGGTGGTGATCGAGGCGAGGATGGACGTC
B9713-31	TGGCATGCCAGGTGCCAGTCTCGAATTGCCCGGACTTTACCCGCTGATCAGAAGCCAGAGTGCCG
B9713-32	GGTCGAATGGCAGAGGCATCGAAGGATCACCCCTTTCCAGTATGGCCGGCACTCTGGCTTCTGA
B9713-33	GCCTCTGCCATTGACCTCACAGAGATCGTTTCTGAACTCAGAGGTCTGCTTCTGGAGACCAGGC
B9713-34	GATCCATCCCTAGGTAGATGCATCTAGGGCCTGGTCTCCAGAAGCA