**Table S3\_**Primers used to amplify the promoter, coding and 3’UTR regions of *MGAT5* gene.

|  |  |  |
| --- | --- | --- |
| **Chr: bp-bp** | **Region** | **Primers** |
| 2: 134250287-134253254 | Putative promoter | Fw\_CAACAAGGTCTTCTGAGATCCACTG |
| Rv\_TCTTCTCTGCCCTTGCCTTG |
| Fw\_CAAATTTGCATGTCTCTGAACTGG |
| Rv\_GCACTTTATTCAGCCCTTCTAACTGC |
| Fw\_GAGCGGAGTGGAGGAAGGAA |
| Rv\_TGCTATCATAGGAGATAACAGAACAGTGG |
| Fw\_CTCTCCTCCCCACCCCTGGTA |
| Rv\_GGCACATGAGTGCTCTCTATTATGCTG |
| Fw\_GGCAAACAGGCTGGGTTTGA |
| Rv\_GCTTAATGGGTCATGAAAAGCAATAAAAA |
| Fw\_TGCTGATTCAGTGGGTGTGG |
| Rv\_GAGACTAACCCAGGCTGTACTTCAGA |
| 2: 134254206-134254753 | Exon 1 | Fw\_TTTATTTTGCTGTATTGTGCCATGA |
| Rv\_GCAGTGGCAAAGGACATTCA |
| 2: 134270168-134270629 | Exon 2 | Fw\_TTATTGCCAGACTTGCATTCCA |
| Rv\_ACCACTGCTCTCCTTTATTCTCTTCTT |
| 2: 134317439-134317685 | Exon 3 | Fw\_GTTTCTCTCCCTACCTCTTGGCTTAC |
| Rv\_GGAAAAGGAAGAGAAGGGAAAAAGA |
| 2: 134318553-134318818 | Exon 4 | Fw\_CATTCACTCCATCTTCACCATTCTATC |
| Rv\_GCTTTTCAAATTTCAGACTCAGCTACA |
| 2: 134336128-134336339 | Exon 5 | Fw\_TGTGTGCCAGGAGCTGTTCT |
| Rv\_GCATCTGACCTAAATGCACAAGTC |
| 2: 134338076-134338495 | Exon 6 | Fw\_CAGCCTTGGCTTCAGTTTGC |
| Rv\_AGTCTTGTTTCCAAGCAAAATCAAA |
| 2: 134341492-134341961 | Exon 7 | Fw\_AAACATGACTTTGGGATTGGTCA |
| Rv\_CCTTCAGCGACAATGAAAACATATTA |
| 2: 134344840-134345134 | Exon 8 | Fw\_GGCATTTGCCCATTAAAGTTGC |
| Rv\_CCCACAACCATGCAACCTTTG |
| 2: 134349757-135247773 | Exon 9 | Fw\_CTTTGGGGGCAAGTATGTAGTGTT |
| Rv\_CAAGGAAAAGGTTCAACAGCACA |
| 2: 134362186-134362512 | Exon 10 | Fw\_TGGGTAAGATGGCCTGTGTTAAA |
| Rv\_ATTAAGCCCTGGGCACTTGG |
| 2: 134402843-134403255 | Exon 11 | Fw\_GCAGTTTGATTGCCAAATTCCTG |
| Rv\_GCCCCAAAATAGCCACAAGAGTT |
| 2: 134412697-134413173 | Exon 12 | Fw\_TGGTGTAAGCTGAATTCTCTCTGC |
| Rv\_CTTGCAAGGTGATGTGATCAGG |
| 2: 134422730-134423037 | Exon 13 | Fw\_AGCATAGCACTCCATCTAGCACAG |
| Rv\_TCCAGAGTTAAGCTGATGTGGTAAAG |
| 2: 134428197-134428576 | Exon 14 | Fw\_CACACCTAGTAAGGATCAGCTTGAGA |
| Rv\_TTATCCAGCTTCTAGAGTCTCCCAAA |
| 2: 134441675-134442028 | Exon 15 | Fw\_TCCATTGCTAGGGTGGTTGG |
| Rv\_ATCCCCACAGCCCAGTAGCTT |
| 2: 134448561-134454814 | Exon 16 + 3'UTR | Fw\_GCCTCAAGATGGGGGCTCA |
| Rv\_TCCTCCTGTTTTGTTTTAAAGGACTCTTG |
| Fw\_AGCTGCTCCAGGGCAAAAGA |
| Rv\_CAAGGTATGTGTCTGGGCATGG |
| Fw\_AGGCCCCTTTCCTCCATGTC |
| Rv\_TCAGGGGCTTTTCAGAAACTTACAA |
| Fw\_CCACCCCACTGAATCATTGCT |
| Rv\_TTTGGACTTCTGCCCTTCTTCCTA |
| Fw\_CTGCCCTGAGCATCATCACA |
| Rv\_AGTGTTCTTCTGGGCTGTCTGG |
| Fw\_GCCTCCCTACCTTCCCCTTCT |
| Rv\_GCGGTGTTTACCAGCATTCAAA |
| Fw\_CCCCATTGTGATCCTAAGCTCTTAAA |
| Rv\_TGATTCTGCCTCAGCCACACCTC |
| Fw\_CAACGTGTCAACCAGCCTGTG |
| Rv\_ATCACAGGAACTCACCCTCAGCTT |
| Fw\_TGCTCATTTAGGAAGCTGGGAGTT |
| Rv\_AAATGTTCCTTGAGGAAAACCCTTG |
| Fw\_GGCTGCAAGAATTTATGAACTCCA |
| Rv\_ACAAAAAGCAAACCGATATTTAGGTGA |
| Fw\_GCTGCTCATGACTGAATGTTTTCC |
| Rv\_CCCTCTCAGCTTTGGCAGATG |
| Fw\_TGTCAGGAACCTCAGAGCAGCTT |
| Rv\_TAGTAAAACCTTCCCCTCTCCACTCC |

**Chr** – chromosome; **bp** – base pairs; **Fw** – forward; **Rv** – reverse