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| **Supplementary table2: Primer sequences** |  |  |
| **Gene** | **Primer sequences** | **Accession no.** |
| Peroxisome proliferator-activated receptor gamma (PPAR-γ) | F-GAAAGACAACGGACAAATCACC  R-GGGGGTGATATGTTTGAACTTG | NM\_011146.3 |
| CCAAT/enhancer-binding protein alpha (Cebp/a) | F-AAACAACGCAACGTGGAGA  R-GCGGTCATTGTCACTGGTC | NM\_011146.3 |
| CCAAT/enhancer-binding protein beta (C/EBP-β) | F-tgatgcaatccggatcaa  R-cacgtgtgttgcgtcagtc | NM\_001287738.1 |
| CCAAT/enhancer-binding protein delta (C/EBP-δ) | F-cttttaggtggttgccgaag  R-gcaacgaggaatcaagtttca | NM\_007679.4 |
| uncoupling protein 1 (Ucp1) (mitochondrial, proton carrier) | F-ggcctctacgactcagtcca  R-taagccggctgagatcttgt | NM\_009463.3 |
| elongation of very long chain fatty acids (Elovl3) | F-gcaccatctttggcatactg  R-ttgttgtgtggcatcctttc | NM\_007703.2 |
| Deiodinase, iodothyronine, type II (Dio2) | F-tggcatgccctgtaggtt  R-tgagaagtctggtacatcagcaa | NM\_010050.2 |
| Sterol regulatory element binding protein (SREBP) | F-GGTTTTGAACGACATCGAAGA  R-CGGGAAGTCACTGTCTTGGT | NM\_011480.3 |
| Dkk-2 | F- ctggtacccgctgcaataat  R- catggttgcgatctctatgc | AJ243963.2 |
| Wnt10b | F- tcactccctcccttttaccc  R- gcccagccactcctctct | NM\_011718.2 |
| Lrp5 | F- tgaatgtggccaaggttgt  R- tgcaggtcttcatgtcactca | NM\_008513.3 |
| β-catenin | F- ttcctatgggaacagtcgaag  R- ttgtattgttactcctcgaccaaa | NM\_001165902.1 |
| Leptin | F- gtggtggctggtgtcagat  R- ttgatgaggtgaccaaggtg | NM\_008493.3 |
| TNf-alpha | F- tcttctcattcctgcttgtgg  R- ggtctgggccatagaactga | NM\_001278601.1 |
| Collagen type-1 (Col-1) | F-CATGTTCAGCTTTGTGGACCT  R-GCAGCTGACTTCAGGGATGT | NM\_007742.3 |
| Runt-related transcription factor 2 (RUNX-2) | F-CCCGGGAACCAAGAAATC  R-CAGATAGGAGGGGTAAGACTGG | AF053956.1 |
| Osteocalcin (OCN) | F-TGAGGACCATCTTCTGCTCA  R-TGGACATGAAGGCTTTGTCA | NM\_001032298 |
| Osteopontin (OPN) | F- ggaggaaaccagccaagg  R- tgccagaatcagtcactttcac | NM\_001204203.1 |
| Receptor activator for nuclear factor κ B (RANK) | F-AGAGGCATTATGAGCATCTCG  R-CGAGTGCACTTAGAGGACAGGT | BC019185.1 |
| Tartrate resistant acid phosphatase (TRAP) | F-CGTCTCTGCACAGATTGCAT  R-AAGCGCAAACGGTAGTAAGG | NM\_001102405.1 |
| Osteoprotegrin (OPG) | F-AGCCATTGCACACCTCAC  R-CGTGGTACCAAGAGGACAGAGT | NM\_011613 |
| Receptor activator for nuclear factor κ B ligand (RANKL) | F-AGCCATTTGCACACCTCAC  R-CGTGGTACCAAGAGGACAGAGT | NM\_011613 |
| mitogen-activated protein kinase (p42) (MAPK) | F- gacagagtacgtagccacacgtt  R- agcccacagaccaaatatcaa | X58712.1 |
| Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) | F-AGCTTGTCATCAACGGGAAG  R-TTTGATGTTAGTGGGGTCTCG | DQ403054.1 |