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| **Supplementary table2: Primer sequences** |  |  |
| **Gene** | **Primer sequences** | **Accession no.** |
| Peroxisome proliferator-activated receptor gamma (PPAR-γ) | F-GAAAGACAACGGACAAATCACCR-GGGGGTGATATGTTTGAACTTG | NM\_011146.3 |
| CCAAT/enhancer-binding protein alpha (Cebp/a) | F-AAACAACGCAACGTGGAGAR-GCGGTCATTGTCACTGGTC | NM\_011146.3 |
| CCAAT/enhancer-binding protein beta (C/EBP-β)  | F-tgatgcaatccggatcaaR-cacgtgtgttgcgtcagtc | NM\_001287738.1 |
| CCAAT/enhancer-binding protein delta (C/EBP-δ) | F-cttttaggtggttgccgaagR-gcaacgaggaatcaagtttca | NM\_007679.4 |
| uncoupling protein 1 (Ucp1) (mitochondrial, proton carrier)  | F-ggcctctacgactcagtccaR-taagccggctgagatcttgt | NM\_009463.3 |
| elongation of very long chain fatty acids (Elovl3) | F-gcaccatctttggcatactgR-ttgttgtgtggcatcctttc | NM\_007703.2 |
| Deiodinase, iodothyronine, type II (Dio2) | F-tggcatgccctgtaggttR-tgagaagtctggtacatcagcaa | NM\_010050.2 |
| Sterol regulatory element binding protein (SREBP)  | F-GGTTTTGAACGACATCGAAGAR-CGGGAAGTCACTGTCTTGGT | NM\_011480.3 |
| Dkk-2  | F- ctggtacccgctgcaataat R- catggttgcgatctctatgc | AJ243963.2 |
| Wnt10b | F- tcactccctcccttttacccR- gcccagccactcctctct | NM\_011718.2 |
| Lrp5 | F- tgaatgtggccaaggttgtR- tgcaggtcttcatgtcactca | NM\_008513.3 |
| β-catenin | F- ttcctatgggaacagtcgaagR- ttgtattgttactcctcgaccaaa | NM\_001165902.1 |
| Leptin | F- gtggtggctggtgtcagatR- ttgatgaggtgaccaaggtg | NM\_008493.3 |
| TNf-alpha  | F- tcttctcattcctgcttgtggR- ggtctgggccatagaactga | NM\_001278601.1 |
| Collagen type-1 (Col-1)  | F-CATGTTCAGCTTTGTGGACCTR-GCAGCTGACTTCAGGGATGT | NM\_007742.3 |
| Runt-related transcription factor 2 (RUNX-2)  | F-CCCGGGAACCAAGAAATCR-CAGATAGGAGGGGTAAGACTGG | AF053956.1 |
| Osteocalcin (OCN)  | F-TGAGGACCATCTTCTGCTCAR-TGGACATGAAGGCTTTGTCA | NM\_001032298 |
| Osteopontin (OPN) | F- ggaggaaaccagccaaggR- tgccagaatcagtcactttcac | NM\_001204203.1 |
| Receptor activator for nuclear factor κ B (RANK)  | F-AGAGGCATTATGAGCATCTCGR-CGAGTGCACTTAGAGGACAGGT | BC019185.1 |
| Tartrate resistant acid phosphatase (TRAP)  | F-CGTCTCTGCACAGATTGCATR-AAGCGCAAACGGTAGTAAGG | NM\_001102405.1 |
| Osteoprotegrin (OPG)  | F-AGCCATTGCACACCTCACR-CGTGGTACCAAGAGGACAGAGT | NM\_011613 |
| Receptor activator for nuclear factor κ B ligand (RANKL)  | F-AGCCATTTGCACACCTCACR-CGTGGTACCAAGAGGACAGAGT | NM\_011613 |
| mitogen-activated protein kinase (p42) (MAPK)  | F- gacagagtacgtagccacacgttR- agcccacagaccaaatatcaa | X58712.1 |
| Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)  | F-AGCTTGTCATCAACGGGAAGR-TTTGATGTTAGTGGGGTCTCG | DQ403054.1 |