Table1. Information of the primer sequence

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| Gene names |  | Primer sequence |
| h-CXCL2  h-TRAP  h-Cathepsine k  h-RANK  h-GAPDH  m-TRAP | forward primer  reverse primer  forward primer  reverse primer  forward primer  reverse primer  forward primer  reverse primer  forward primer  reverse primer  forward primer  reverse primer | 5'- TGTGACGGCAGGGAAATGTA-3′  5'-TGCTCTAACACAGAGGGAAACA-3'  5’-CCTACCCACTGCCTGGTCAA-3’  5’-ACGTAGCCCACGCCATTCTC-3’  5’-AAGCCAGACAACAGATTTCCATCAG-3’  5’-ATAGCTCCCAGTGGGTGTCCAG-3’  5’-AGGATCCGTTGGTGGGAATTTA-3’  5’-CAGTGAGATGACAGTCACAGCAGAA-3’  5'- ACCCAGAAGACTGTGGATGG-3'  5'- CAGTGAGCTTCCCGTTCAG-3'  5′-ACACAGTGATGCTGTGTGGCAACTC-3′  5′-CCAGAGGCTTCCA CATATATGATGG -3′ |
| m-Cathepsine k | forward primer  reverse primer | 5′- CTGAAGATG CTTTCCCATATGTGGG-3′  5′- GCAGGCGTT GTTCTTATTCCGAGC-3′ |
| m-RANK | forward primer  reverse primer | 5′-ACCTCCAGTCAGCAAGAAGT-3′  5′-TCACAGCCCTCAGAATCCAC-3′ |
| m-NFATc1 | forward primer  reverse primer | 5′-CCGTTGCTTCCAGAAAATAACA-3′  5′-TGTGGGATGTGAACTCGGAA-3′ |
| m-c-Fos | forward primer  reverse primer | 5′-TACTACCATTCCCCAGCCGA-3′  5′-GCTGTCACCGTGGGGATAAA-3′ |
| m-GAPDH | forward primer  reverse primer | 5′- AAATGGTGAAGGTCGGTGTG-3′  5′- TGAAGGGGTCGTTGATGG-3′ |

Table2. Information of the antibodies

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| Name of products | Catalogue numbers | Manufacturers |
| Anti-phospho-SAPK/JNK antibody | 9251 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-SAPK/JNK antibody | 9252 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-phospho-IκBα (Ser32) (14D4) rabbit mAb | 2859 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-IκBα antibody | 9242 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) (D13.14.4E) XP® rabbit mAb | 4370 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-p44/42 MAPK (Erk1/2) (137F5) rabbit mAb | 4695 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-NF-κB p65  rabbit mAb | 8242 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-phospho- NF-κB p65 (Ser536)  rabbit mAb | 3033 | Cell Signaling Technology (Danvers, MA, USA) |
| Anti-GAPDH antibody | C1312 | Solarbio (Beijing, China) |