Table1. Information of the primer sequence

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| Gene names |  | Primer sequence |
| h-CXCL2h-TRAPh-Cathepsine kh-RANKh-GAPDHm-TRAP | forward primerreverse primerforward primerreverse primerforward primerreverse primerforward primerreverse primerforward primerreverse primerforward primerreverse 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 primerreverse primer | 5′- CTGAAGATG CTTTCCCATATGTGGG-3′5′- GCAGGCGTT GTTCTTATTCCGAGC-3′ |
| m-RANK | forward primerreverse primer | 5′-ACCTCCAGTCAGCAAGAAGT-3′5′-TCACAGCCCTCAGAATCCAC-3′ |
| m-NFATc1 | forward primerreverse primer | 5′-CCGTTGCTTCCAGAAAATAACA-3′5′-TGTGGGATGTGAACTCGGAA-3′ |
| m-c-Fos | forward primerreverse primer | 5′-TACTACCATTCCCCAGCCGA-3′5′-GCTGTCACCGTGGGGATAAA-3′ |
| m-GAPDH | forward primerreverse 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) |