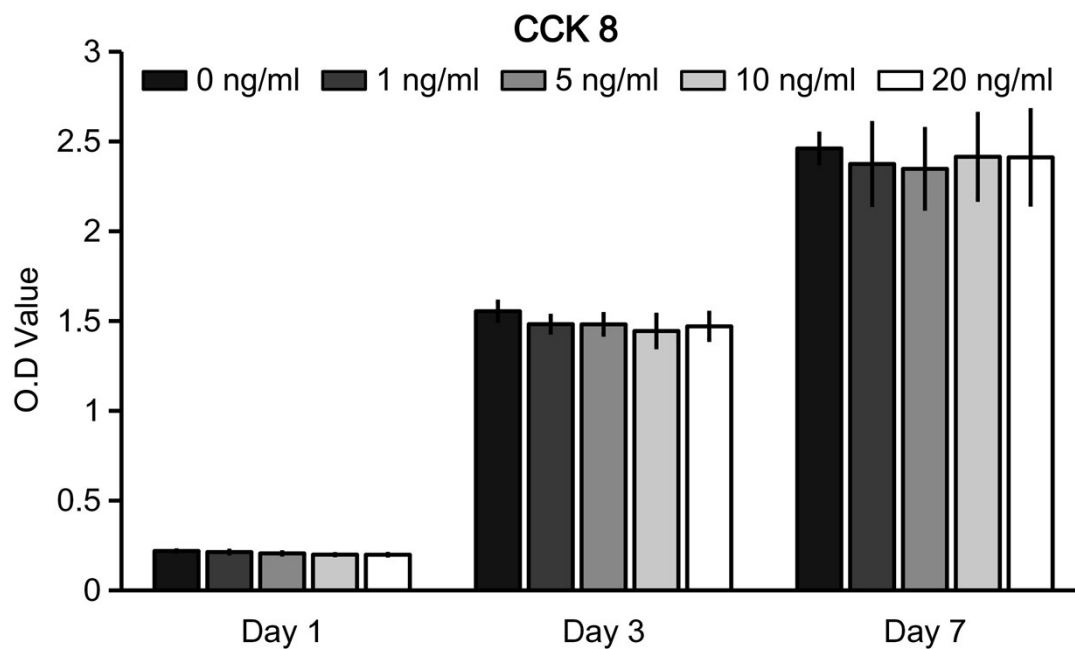


Supplementary Fig. 1 CCK-8 assay for the proliferation of pre-osteoblasts under the stimulation of exogenous IL-6.



Supplementary Table 1. Primer sequences used for real-time quantitative PCR (q-PCR) analysis

<i>Gene</i>	<i>5' to 3'</i>	<i>Primers</i>
Runx-2	Sense	AGCCTCTTCAGCGCAGTGAC
	Anti-Sense	CTGGTGCTCGGATCCCCAA
COL-1	Sense	ACAGACGAACAACCCAAACT
	Anti-Sense	GGTTTTTGGTCACGTTTCAGT
ALP	Sense	ATCTTTGGTCTGGCTCCCATG
	Anti-Sense	TTTCCCGTTCACCGTCCAC
OPN	Sense	CCCTCGATGTCATCCCTGTT
	Anti-Sense	CCCTTTCCGTTGTTGTCCTG
IL-1	Sense	AACCTGCTGGTGTGTGACGTT
	Anti-Sense	CAGCACGAGGCTTTTTTGTGTT
IL-6	Sense	GAGGATACCACTCCCAACAGACC
	Anti-Sense	AAGTGCATCATCGTTGTTTCATACA
IL-10	Sense	ACCTGCTCCACTGCCTTGCT
	Anti-Sense	GGTTGCCAAGCCTTATCGGA
TNF- α	Sense	TGGGAGTAGACAAGGTACAACCC
	Anti-Sense	CATCTTCTCAAAATTCGAGTGACAA
BMP-2	Sense	GATCTGTACCGCAGGCACTCA
	Anti-Sense	AAGCTTCCTGTATCTGTTCCCG
TGF- β 1	Sense	GCAACATGTGGAAGTCTACCAGA
	Anti-Sense	GACGTCAAAAGACAGCCACTCA
BMPRI	Sense	CCTGTTGTTATAGGTCCGTTCTT
	Anti-Sense	AGCTGGAGAAGATGATCATAGCA
TGFR2	Sense	CAACCACAATACGGAAGTGC
	Anti-Sense	GACAGCCACGGTCTCAAAGT
Smad1	Sense	GGATGAGCTTCGTGAAGGGTTGG
	Anti-Sense	GCAAGAGACGGAAGCCACAGG
Smad3	Sense	AGGGGCTCCCTCACGTTATC
	Anti-Sense	CATGGCCCGTAATTCATGGTG
Smad4	Sense	GTGACTGTGGATGGCTATGTGG
	Anti-Sense	GCAACCTCGCTCTCTCAATCG
Smad5	Sense	ATCCCACCACTGTCTGTAAG
	Anti-Sense	TTTATCCAGCCACTGAAGAGG
GAPDH	Sense	TGGTGAAGGTCGGTGTGAAC
	Anti-Sense	CCATGTAGTTGAGGTCAATGAAGG

Supplementary Table 2. The secretion of regulatory factors in macrophages. (Units: IL-1 β group is pg/ml, and the others are ng/ml)

	IL-1β	IL-6	IL-10	TNF-α
BCP	5.18 $\pm$ 3.71	5.13 $\pm$ 1.18	0.13 $\pm$ 0.03	8.85 $\pm$ 0.69
Control	12.88 $\pm$ 3.91	1.63 $\pm$ 0.32	0.07 $\pm$ 0.02	8.70 $\pm$ 0.14