

Supplementary Material for

Calcium-mediated stress kinase activation is necessary for osteoblast differentiation

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Running Title: Stress activated p38 signaling and osteoblast differentiation

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Fig. S1

Treatment of MC3T3-E1 cells with DMSO for 4 and 24 hours had no effect on the gene expression profile

Fig. S2

The levels of phospho-p38 remained the same in the DMSO treated samples and control

(A). Phosphorylation of MAPKAPK2 was similar in cells treated with DMSO and untreated cells (B) Activation of p38 MAPK pathway is dependent on DMP1 signaling during terminal differentiation of osteoblast (C).

Fig. S1

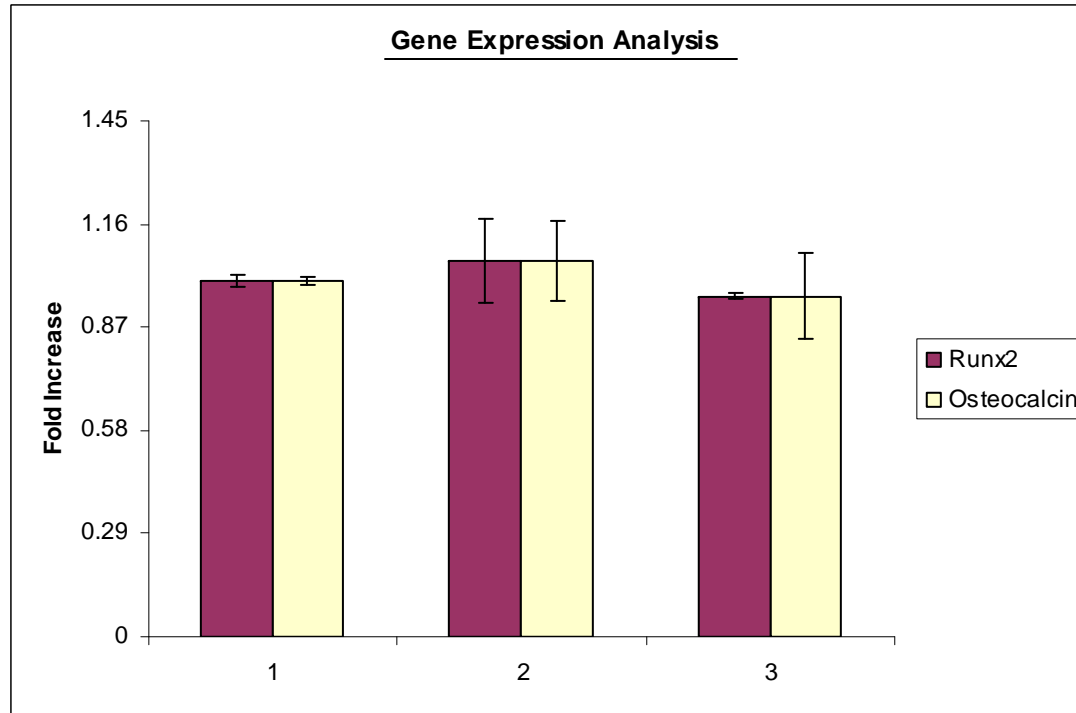
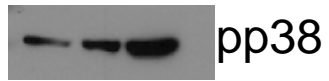


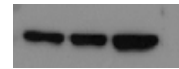
Fig. S2

A



DMSO	-	+	+
DMP1	-	-	+

B



pMAPKAPK2

DMSO	-	+	+
DMP1	-	-	+

C



	C	7d	14d	21d	7d	14d	21d
	(21d)						

DMP1	-	+	+	+	+	+	+
SB203580	-	-	-	-	+	+	+