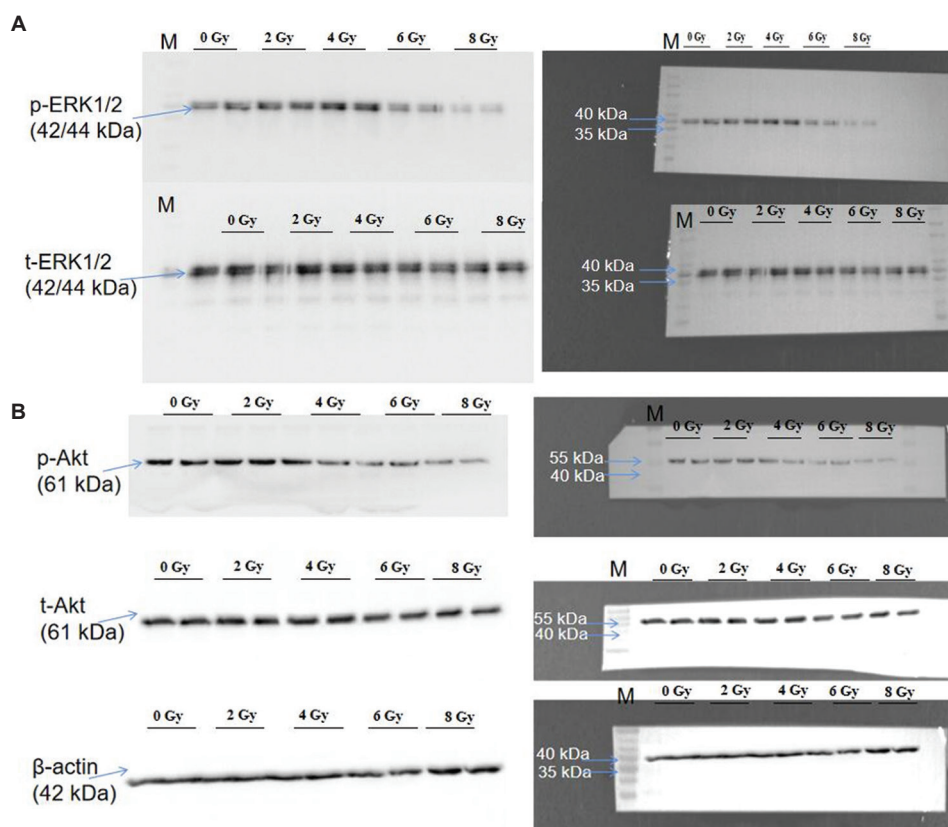


ORIGINAL RESEARCH ARTICLE

Identification of *MDM2* as a novel gene marker and key regulator of radiation-induced osteoblast damage

Raw Image File



**Figure R1.** Original images for Western blotting for the detected expression changes of cell proliferation-related proteins, Akt and ERK1/2, in Figure 1C. (A) Western blotting for ERK proteins (42/44 kDa). (B) Western blotting for Akt proteins (35/44 kDa). Abbreviations: p-Akt: Phosphorylated protein kinase B; p-ERK: Phosphorylated extracellular signal-regulated kinase; t-Akt: Total protein kinase B; t-ERK: Total extracellular signal-regulated kinase.

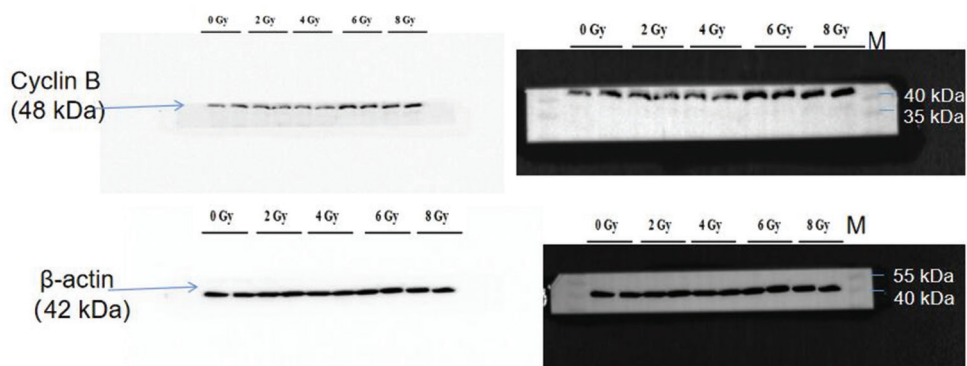


Figure R2. Original images for western blotting of cyclin B protein level changes, in Figure 2D

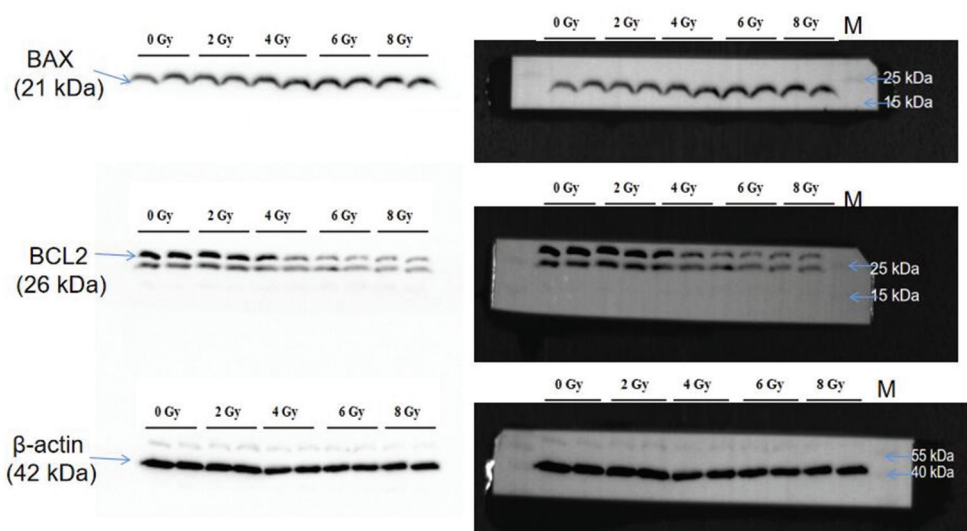
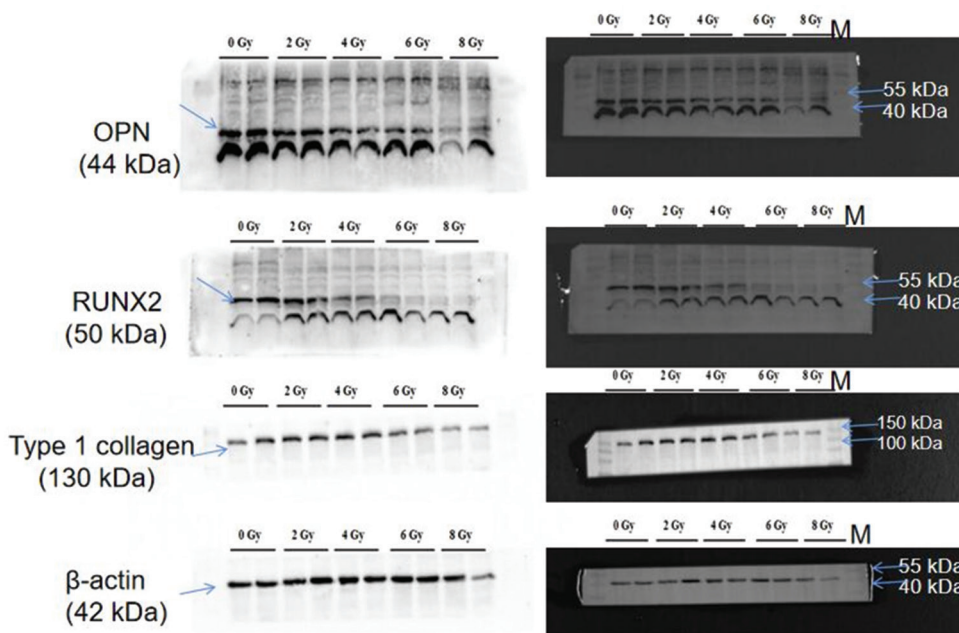
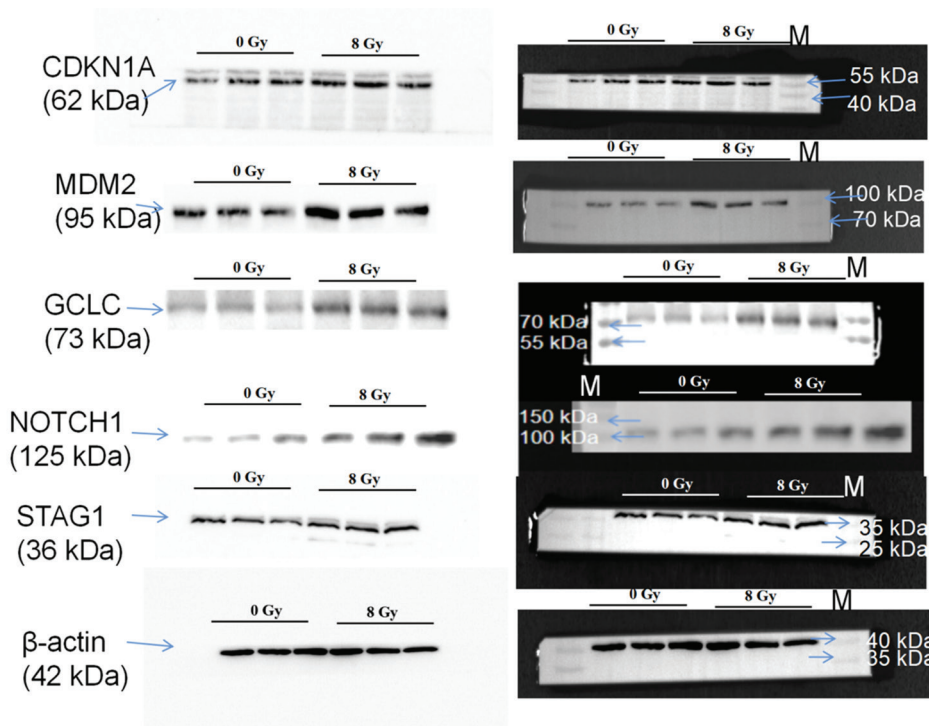


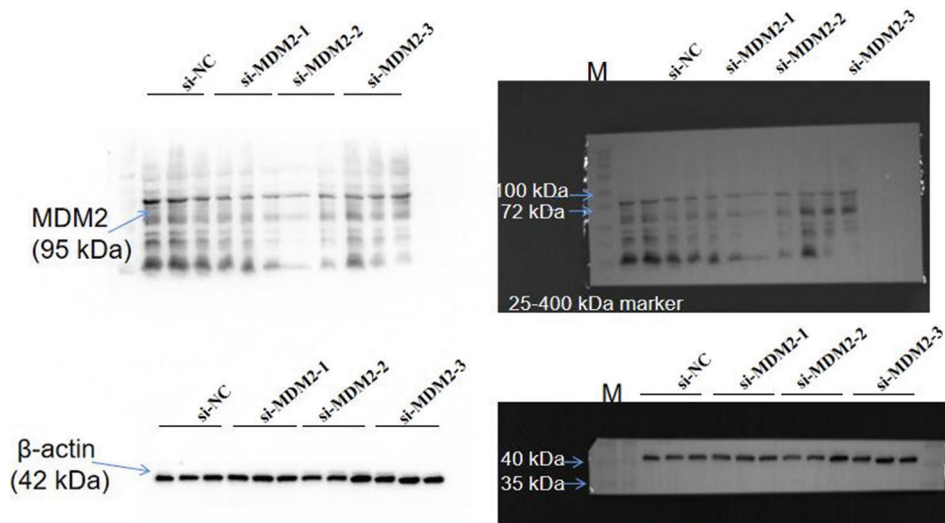
Figure R3. Original images for western blotting of BAX and BCL2 protein level changes, in Figure 3E  
Abbreviations: BAX: B-cell lymphoma-2-associated X protein; BCL2: B-cell lymphoma 2.



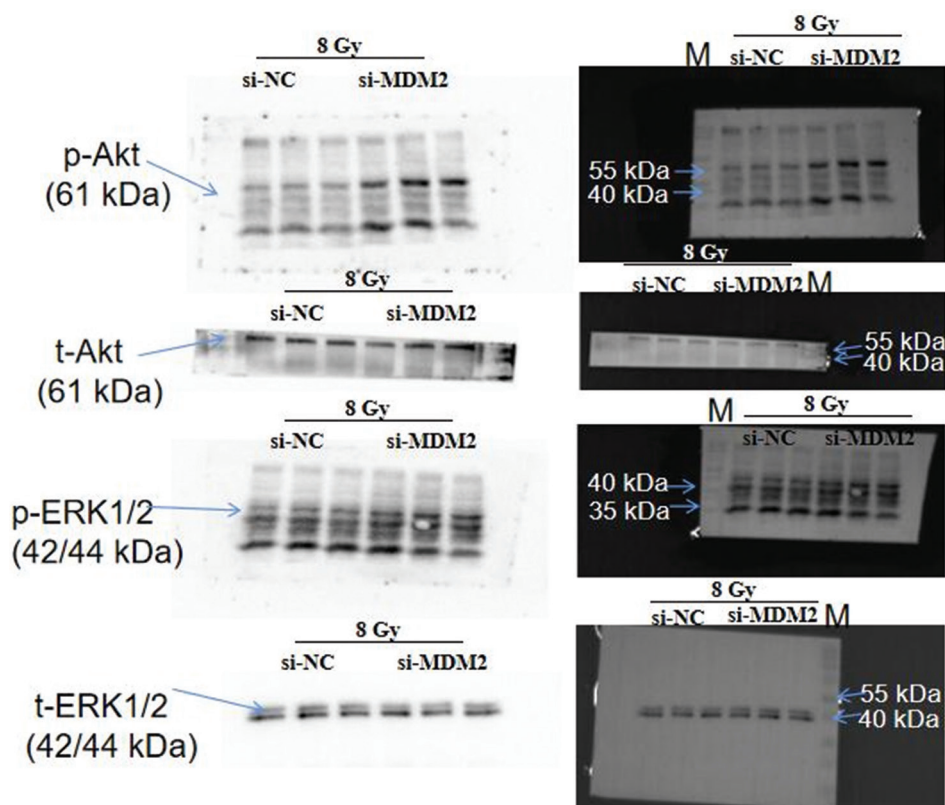
**Figure R4.** Original images for western blotting of OPN, RUNX2, and type 1 collagen protein level changes, in Figure 4E  
Abbreviations: OPN: Osteopontin; RUNX2: Runt-related transcription factor 2.



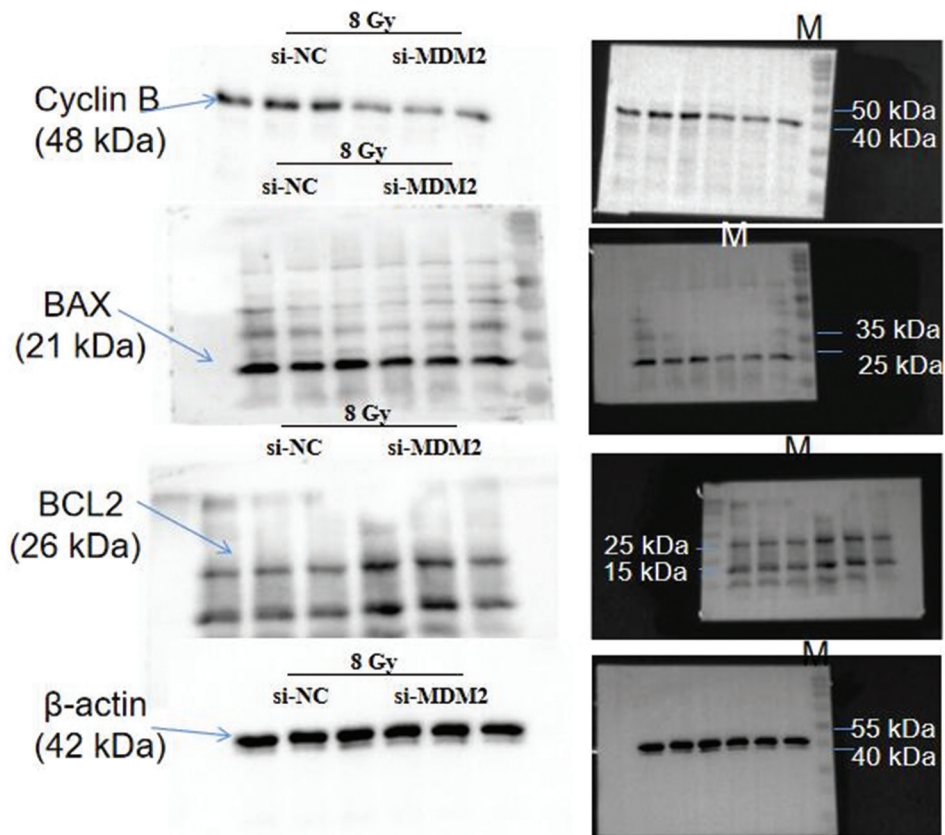
**Figure R5.** Original images for differentially expressed proteins validated by Western blot assay, in Figure 5F  
Abbreviations: CDKN1A: Cyclin-dependent kinase inhibitor 1A; GCLC: Glutamate-cysteine ligase catalytic subunit; MDM2: Mouse double minute 2 homolog; NOTCH1: Notch receptor 1; STAG1: Stromal antigen 1.



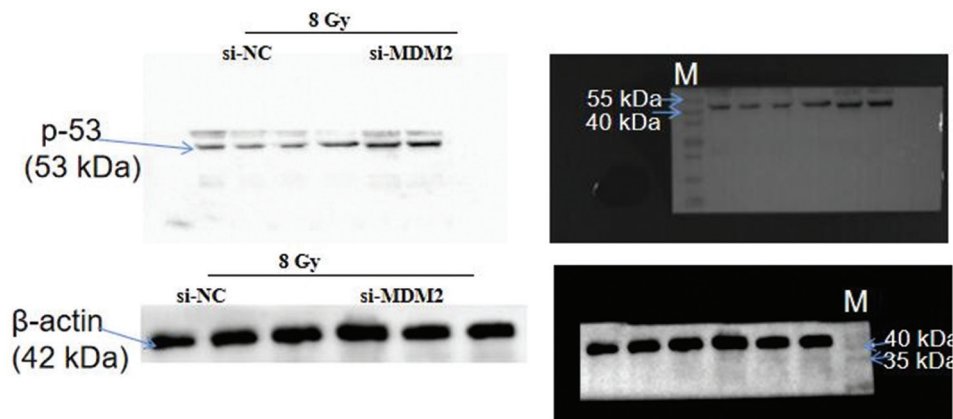
**Figure R6.** Original images for MDM2 expression after si-MDM2 transfection, in Figure 7A  
Abbreviations: MDM2: Mouse double minute 2 homolog; NC: Negative control.



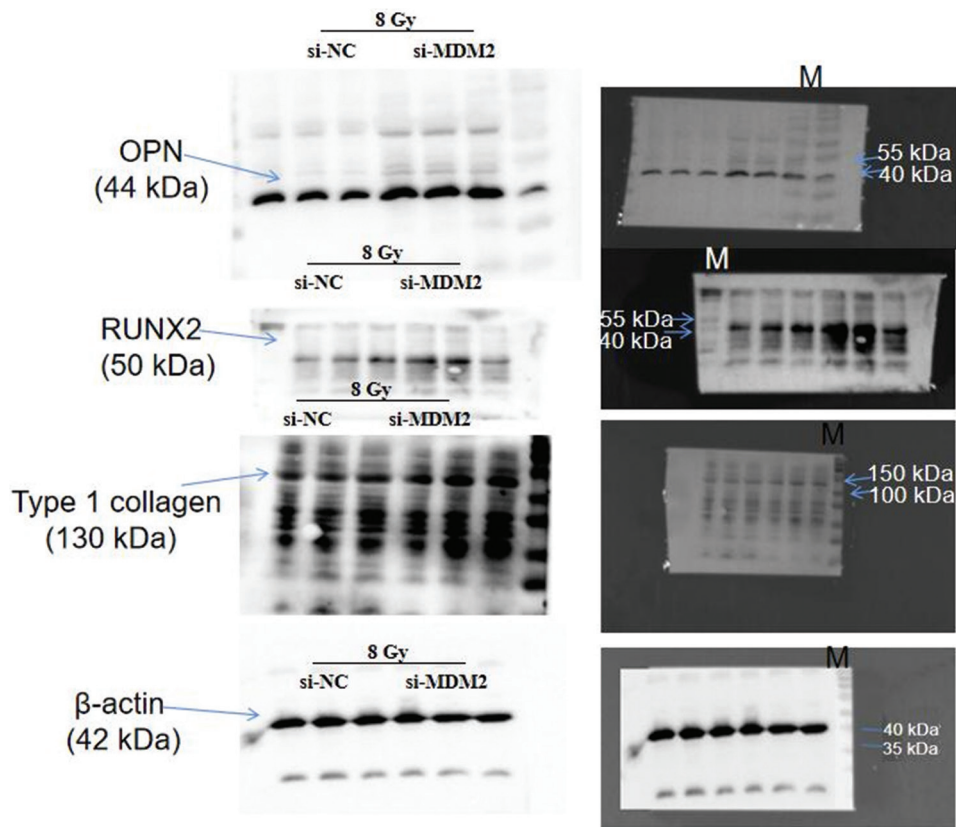
**Figure R7.** Original images for cell growth-related protein expression after si-MDM2 transfection, in Figure 7F  
Abbreviations: MDM2: Mouse double minute 2 homolog; NC: Negative control; p-Akt: Phosphorylated protein kinase B; p-ERK: Phosphorylated extracellular signal-regulated kinase; t-Akt: Total protein kinase B; t-ERK: Total extracellular signal-regulated kinase.



**Figure R8.** Original images for cell growth-related protein expression after si-MDM2 transfection, in Figure 7F  
Abbreviations: BAX: B-cell lymphoma-2-associated X protein; BCL2: B-cell lymphoma 2; MDM2: Mouse double minute 2 homolog; NC: Negative control.



**Figure R9.** Original images for p53 expression after si-MDM2 transfection, in Figure 7G  
Abbreviations: MDM2: Mouse double minute 2 homolog; NC: Negative control.



**Figure R10.** Original images for OPN, RUNX2, and type 1 collagen protein level changes after si-MDM2 transfection, in Figure 8D  
Abbreviations: MDM2: Mouse double minute 2 homolog; NC: Negative control.