

CORRECTION

# Correction: E2F1 and TFDP1 Regulate *PITX1* Expression in Normal and Osteoarthritic Articular Chondrocytes

The *PLOS ONE* Staff

The caption for [Fig 1](#) is incorrectly displayed as the fourth paragraph of the Results section. The publisher apologizes for the error. Please see the correct [Fig 1](#) caption here.

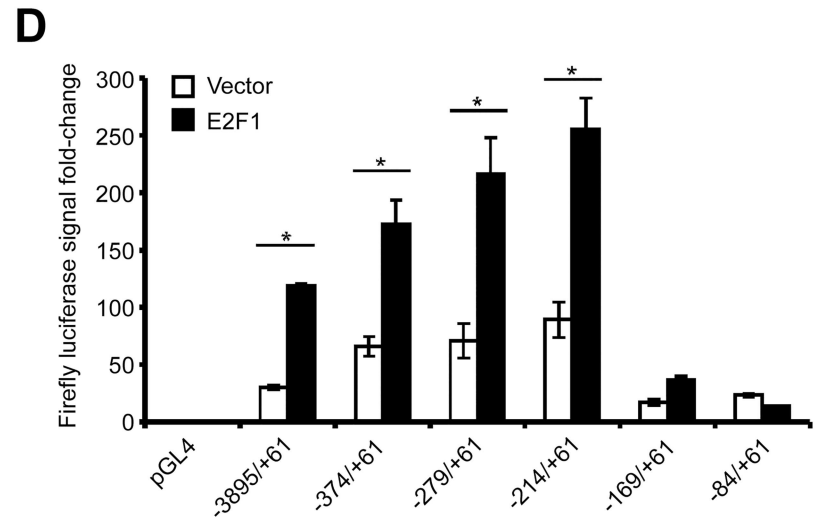
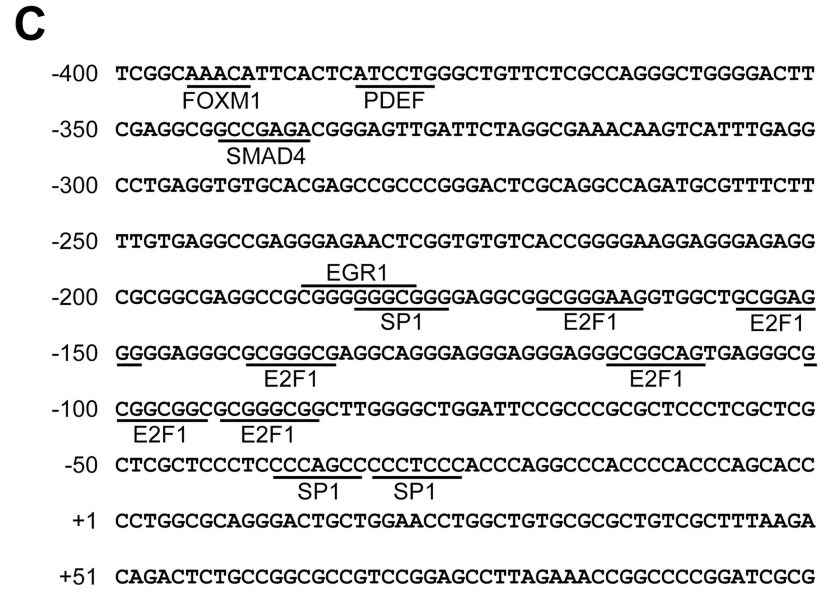
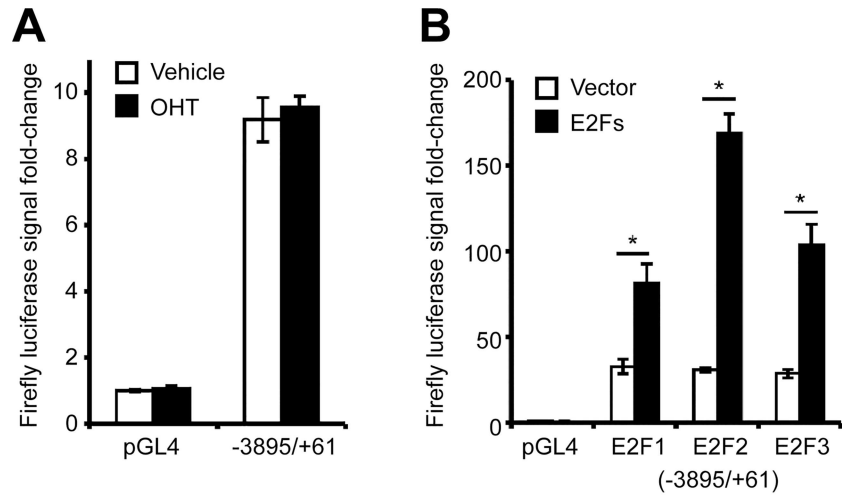


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**Fig 1. Critical regulatory regions in the *PITX1* promoter govern its expression in chondrocytes.**

Human C28/12 chondrocyte cells were cotransfected with either the empty pGL4 plasmid (luciferase reporter plasmid) or the pGL4 plasmids containing different regions of the *PITX1* promoter combined with either the empty pBabe plasmid or pBabe plasmids expressing ER (estrogen receptor) fused to E2F1, E2F2, or E2F3 and induced with 4OH-tamoxifen (OHT) for 24 h. **(A)** The -3895/+61 *PITX1* gene region contains regulatory elements capable of producing a luciferase signal that is not affected by OHT treatment. **(B)** Overexpression of E2F1, E2F2, and E2F3 produces a significant increase in the luciferase activity under the control of the -3895/+61 *PITX1* gene region. **(C)** The proximal sequence of the *PITX1* promoter contains several E2F1 binding sites, as predicted by MatInspector 8.0 software (Genomatix Software Suite). **(D)** Overexpression of E2F1 has variable effects on luciferase activity depending on the length of the transfected promoter region (-3895/+61; -374/+61; -279/+61; -214/+61; -169/+61; -84/+61). Except for the -84/+61 *PITX1* gene region, all the other constructs are significantly activated by E2F1. **(Fig 1A, 1B and 1D)** Data represents mean and standard deviation of 3 independent experiments. Asterisks represent a significant increase in luciferase activity (Two-way ANOVA; Bonferroni *post hoc*: \* $p < 0.0001$ ) compared with control cells.

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## Reference

1. Pellicelli M, Picard C, Wang D, Lavigne P, Moreau A (2016) E2F1 and TFDP1 Regulate *PITX1* Expression in Normal and Osteoarthritic Articular Chondrocytes. PLoS ONE 11(11): e0165951. doi:[10.1371/journal.pone.0165951](https://doi.org/10.1371/journal.pone.0165951) PMID: [27802335](https://pubmed.ncbi.nlm.nih.gov/27802335/)