

CORRECTION

Open Access



Correction to: Transcriptional activation of CBF β by CDK11^{p110} is necessary to promote osteosarcoma cell proliferation

Yong Feng^{1,2}, Yunfei Liao^{1,2}, Jianming Zhang², Jacson Shen², Zengwu Shao¹, Francis Hornicek² and Zhenfeng Duan^{2*}

Correction to: Cell Commun Signal (2019) 17:125
<https://doi.org/10.1186/s12964-019-0440-5>

Following publication of the original article [1], it was reported that Figs. 4 and 5 were not updated during the production process.

The updated Figs. 4 and 5 are supplied below. The original article [1] has been corrected.

Author details

¹Department of Orthopaedic Surgery, Wuhan Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, 1277 Jie Fang Avenue, Wuhan 430022, China. ²Sarcoma Biology Laboratory, Department of Orthopaedic Surgery, Department of Orthopaedic Surgery, David Geffen School of Medicine at UCLA, 615 Charles E. Young Dr. S, Los Angeles, CA 90095, USA.

Published online: 29 October 2019

Reference

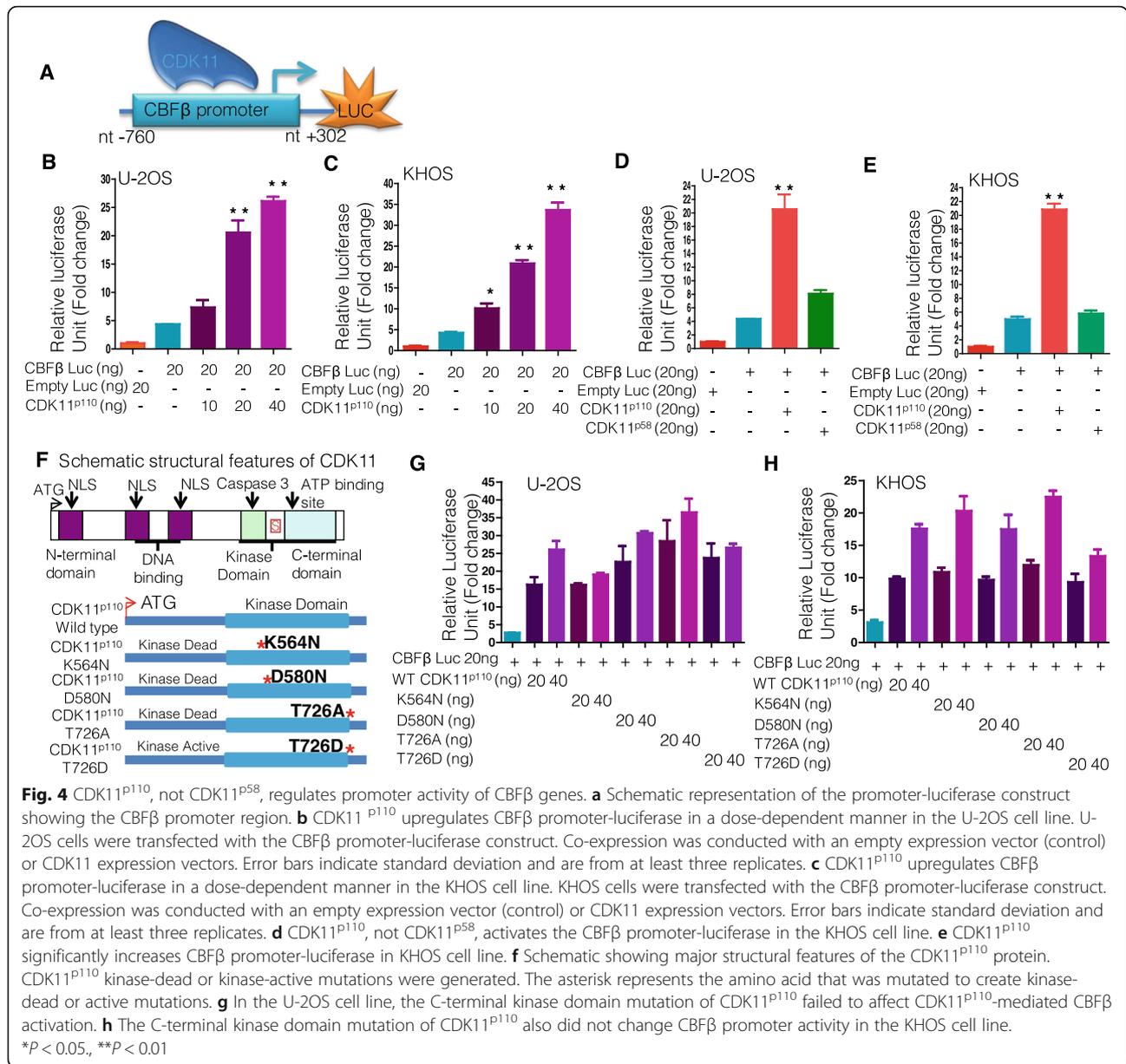
1. Feng Y, et al. Transcriptional activation of CBF β by CDK11^{p110} is necessary to promote osteosarcoma cell proliferation. *Cell Commun Signal*. 2019;17:125. <https://doi.org/10.1186/s12964-019-0440-5>.

* Correspondence: zduan@mednet.ucla.edu

The original article can be found online at <https://doi.org/10.1186/s12964-019-0440-5>

²Sarcoma Biology Laboratory, Department of Orthopaedic Surgery, Department of Orthopaedic Surgery, David Geffen School of Medicine at UCLA, 615 Charles E. Young Dr. S, Los Angeles, CA 90095, USA
Full list of author information is available at the end of the article





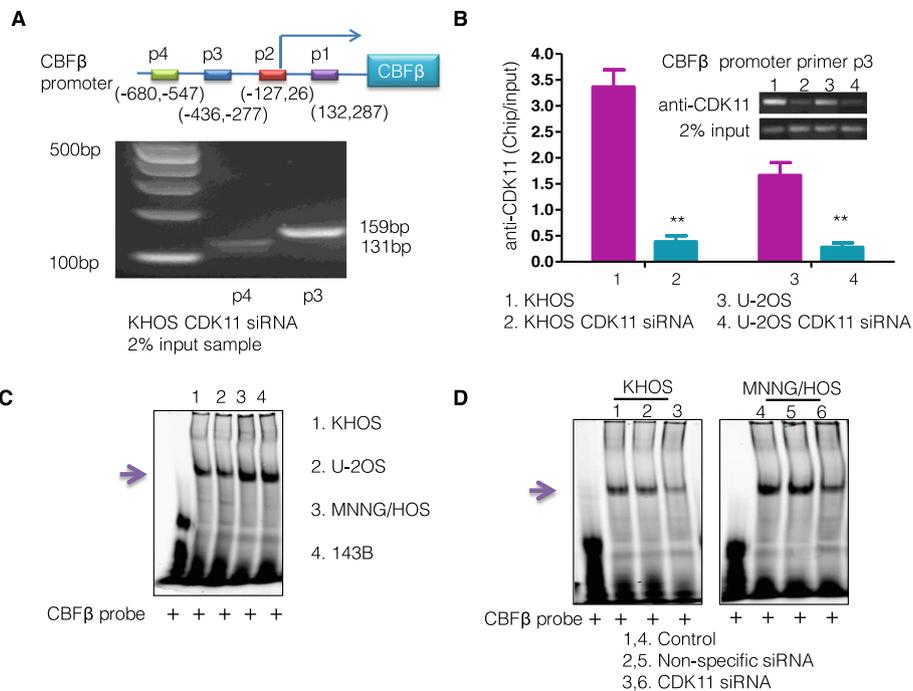


Fig. 5 CDK11^{P110} upregulates CBFβ expression directly by associating with its promoter. **a** Schematic representation of potential CDK11 binding sites in the CBFβ promoter and primer sets (p1, p2, p3, p4) indicating amplified regions encompassing the four primer sites along with the transcription start site (TSS). Chromatin immunoprecipitations were analyzed using a 2% input of KHOS sample treated with CDK11 siRNA by PCR. PCR products were only observed with p3 and p4 primer. **b** ChIP analysis was performed by CDK11 antibodies or 2% input sample and by measuring enrichment at p3 in human CBFβ promoter by RT-PCR. The amount of immunoprecipitated DNA by CDK11 antibodies are represented as ratio of input DNA (1:50) and presented as mean of three independent experiments ($n = 3$, mean \pm SD). * $P < 0.05$; ** $P < 0.01$, Student's t-test. **c** Electrophoretic mobility shift assay of CDK11- CBFβ binding activity in nuclear extracts from different cell lines. Metastatic cell lines MNNH/HOS and 143B demonstrated notable high binding activity (lane 3 and 4, purple arrow) compared with KHOS and U-2OS non-metastatic cell lines. **d** The formation of CDK11-DNA complexes was determined by incubation with labeled CBFβ. Decreased CDK11 DNA-binding activity was present in CDK11 siRNA knockdown KHOS and MNNH/HOS cells (purple arrow)