Correction to: Gene activation in human cells using CRISPR/Cpf1-p300 and CRISPR/Cpf1-SunTag systems

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In the original publication the Supplementary Material and Fig. 2 are incorrect. The correct version of Supplementary Material and Fig. 2 are provided in this correction article. The text HBG2 appearing in the article should be read as HBG1.

The original article can be found online at https://doi.org/10.1007/s13238-018-0585-9.

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Figure 2. Simultaneously transcriptional activation of multiple endogenous genes using either dLbCpf1-p300core or dLbCpf1-SunTag system with a single gRNA for each gene. (A) Relative mRNA expression of MYOD, IL1RN, and HBG1 revealed by quantitative real-time PCR, in HEK293T cells co-transfected with dCpf1-p300core fusion proteins and four single gRNAs or pooled sets of all four single gRNAs targeting each promoter region of target genes. (B) Relative mRNA expression of HBG1 revealed by quantitative RT-PCR, in HEK293T cells co-transfected with dCpf1-p300core fusion proteins and four single gRNAs or pooled sets of all four single gRNAs targeting the enhancer region (HS2 region) of HBG1 gene. (C) Relative mRNA expression of MYOD, HBG1, and IL1RN revealed by quantitative RT-PCR, in HEK293T cells co-transfected with dCpf1-p300core fusion proteins and three gRNAs targeting each promoter region of target genes. (D) Relative mRNA expression of MYOD, HBG1, and IL1RN revealed by quantitative RT-PCR, in HEK293T cells co-transfected with dLbCpf1 (M925)-SunTag and three gRNAs targeting each promoter region of target genes. For C and D, gRNA1, gRNA2 and gRNA1 were used for MYOD, HBG1 and IL1RN, respectively. For (A–D), mean value are presented with S.D. (n = 3). Tukey-test, P < 0.05 compared to cells transfected with dCpf1-p300core or dLbCpf1(M925)-SunTag only, n = 3 independent experiments.