

Corrigendum

Phage T7 DNA mimic protein Ocr is a potent inhibitor of BREX defence

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In Figure 4C, the authors inadvertently omitted the growth curve for BREX + ArdB.

A new figure is provided below, and the published article has been updated.

This error does not affect the results or conclusion of the article.

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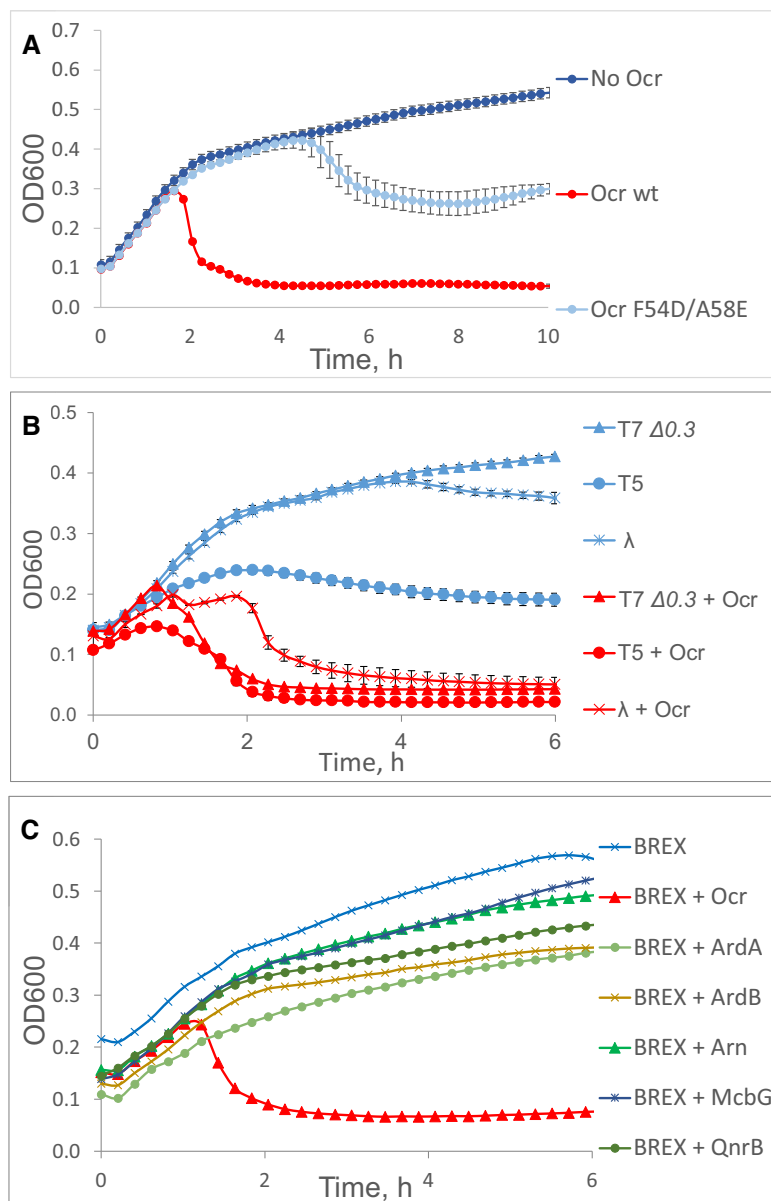


Figure 4. Ocr—but not other DNA mimic or antirestriction proteins—is sufficient for shutting off BREX defence by different phages. (A) Growth curves of BREX+ cells overproducing the indicated variants of Ocr infected with T7 $\Delta 0.3$ at MOI = 0.001. (B) Growth curves of BREX+ cells overproducing wild-type Ocr infected with the indicated phages at MOI = 0.001 (T7 $\Delta 0.3$ and T5) or MOI = 1 (λ cI857). (C) Growth curves of BREX+ cells expressing indicated proteins and infected with T7 $\Delta 0.3$ at MOI = 0.001. ArdA: a DNA mimic protein from ColIb-P9 plasmid and an inhibitor of R–M I systems; ArdB: a non DNA mimic inhibitor of RM I systems from pKM101; Arn: a DNA mimic from phage T4, and an inhibitor of RMIV systems; McbG, QnrB: DNA mimic proteins of the pentapeptide repeat proteins family, inhibitors of DNA gyrase. For inducing plasmid-borne genes, cultures were grown in the presence of 13.3 mM L-arabinose (Ocr, McbG and QnrB) or 1mMIPTG (ArdA, ArdB and Arn). Phage was added at t = 0. Each growth curve represents the mean optical density and standard deviations values obtained from three independent experiments. Standard deviations are not shown in panel C for the sake of clarity.