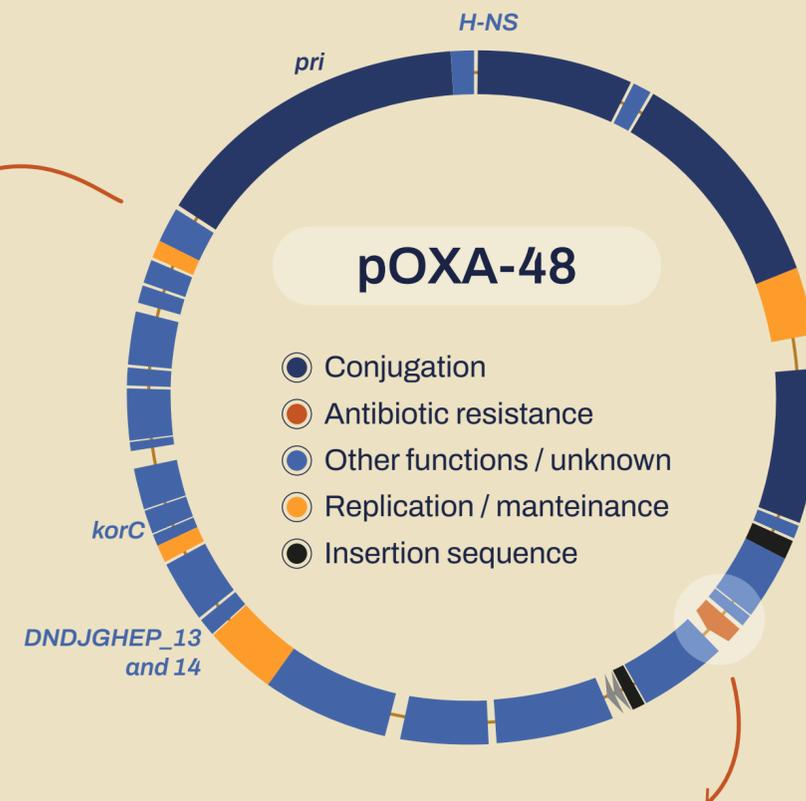
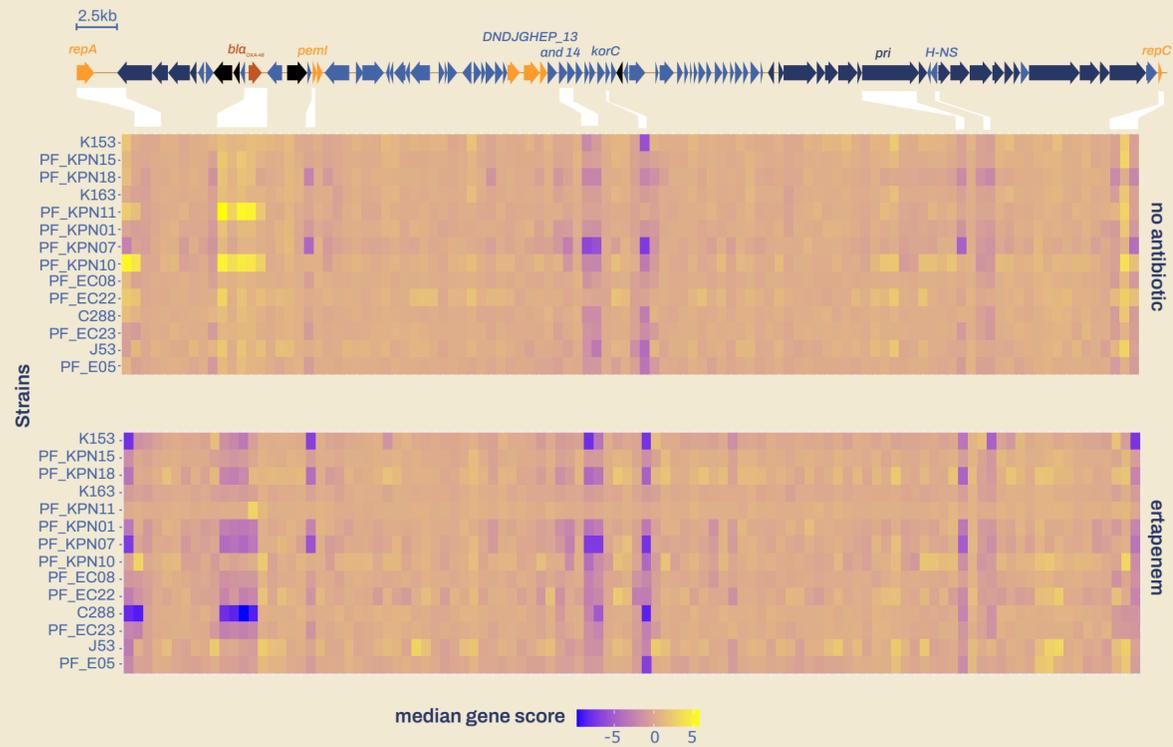


# Plasmid-wide CRISPR interference (CRISPRi) is a potent tool to study gene function in clinical strains

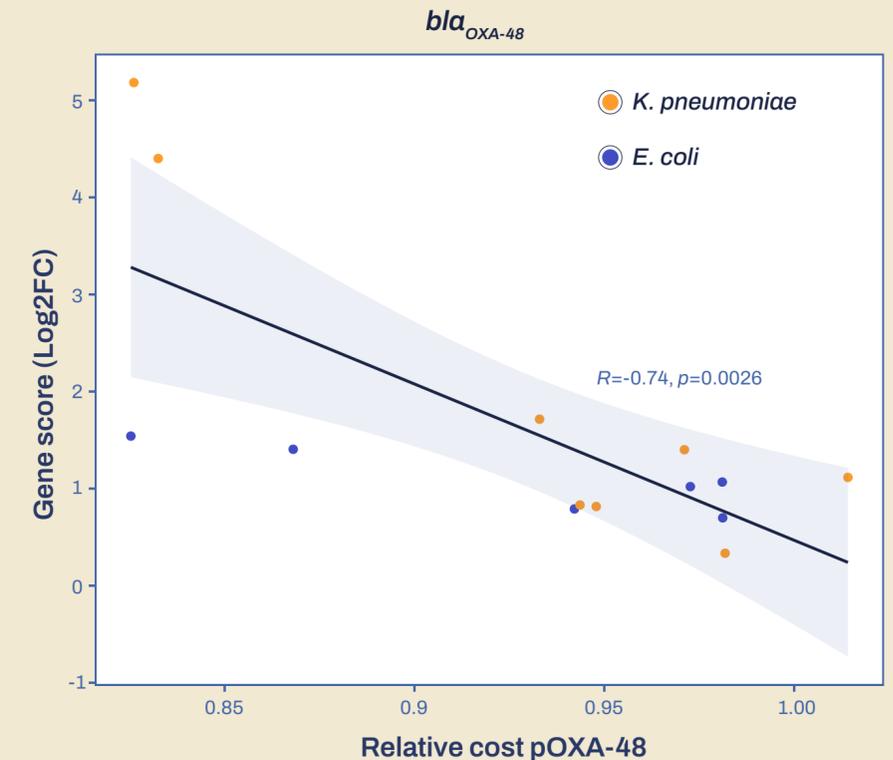


**PLAS-FIGHTER**  
Plasmid Biology & Evolution

Although **pOXA-48** produces a **wide range of fitness-costs** across **clinical clones**, the effects of **silencing each of its genes individually** are **overall conserved**

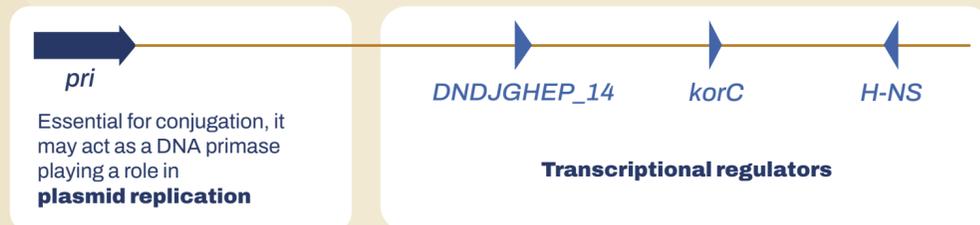


The **carbapenemase gene *bla<sub>OXA-48</sub>*** is the main **responsible for pOXA-48 fitness effects**



**Silencing individual genes** producing significant **fitness effects** compromises **pOXA-48 stability**

**New genes involved in pOXA-48 stability**



**CRISPRi screens at genome-wide scale**

