## ABSTRACT

## NOVEL CRISPR ENZYMES AND SYSTEMS

The invention provides for systems, methods, and compositions for targeting nucleic acids. In particular, the invention provides non-naturally occurring or engineered DNA-targeting systems comprising a novel DNA-targeting CRISPR effector protein and at least one targeting nucleic acid component like a guide RNA. Methods for making and using and uses of such systems, methods, and compositions and products from such methods and uses are also disclosed and claimed.

Figure 95E