

Custom-designed
CRISPR-Cas9 system

Eukaryotic cell

Target RNA
Cas9
Guide RNA

- i** Cas9 searches the DNA for PAM binding sites.



- ii** If PAM is found, Cas9 binds and forms an R-loop with the DNA.



- iii** Cas9 generates a double-stranded DNA break.



- iv** The DNA is left for repair by other enzymes.

