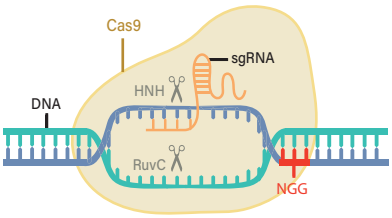
CROYEZ

# UNLOCKING PRECISION CRISPR/CAS
# GENE EDITING AND THE POWER OF CAS9 VARIANTS

Gene Knockout | Gene Correction | Gene Insertion | Cancer Immunotherapy | Agriculture | Diagnostics | Industrial Biotechnology

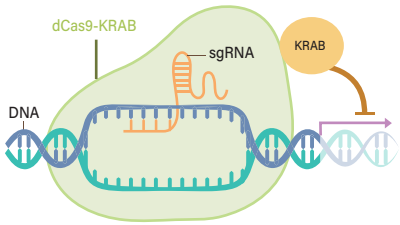
## hSpCas9 (Streptococcus pyogenes Cas9)

hSpCas9 is a widely used CRISPR nuclease that creates targeted DNA double-strand breaks guided by a single guide RNA, enabling gene disruption or precise edits via NHEJ or HDR.



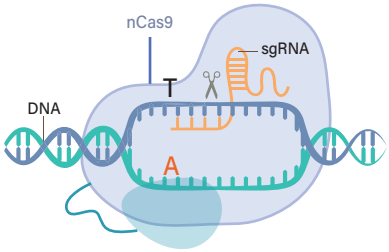

## dCas9-KRAB mRNA

dCas9 is a catalytically inactive version of Cas9 that binds to target DNA without cutting it. It enables gene regulation rather than genome modification by serving as a DNA-binding platform.



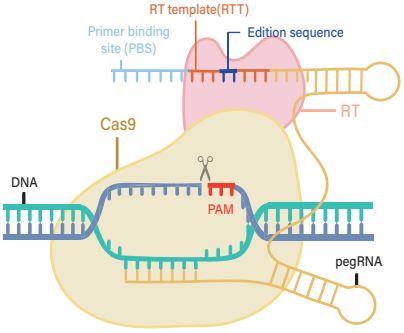

## Adenine Base Editors (ABE)

ABEs convert A•T base pairs to G•C with high precision. They employ an evolved adenine deaminase fused to a Cas9 nickase, offering efficient and targeted base editing without DNA cleavage.




## PEmax (Prime Editor Max)

PEmax is an enhanced prime editing system that enables highly precise "search-and-replace" modifications. It fuses a Cas9 nickase with a reverse transcriptase and a prime editing guide RNA (pegRNA), allowing for all possible base conversions, small insertions, and deletions without DSBs or donor templates.

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