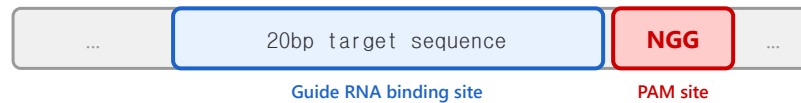


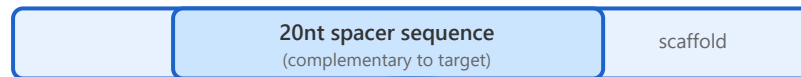
CRISPR Optimization

CRISPR-Cas9 Guide RNA Design

Target DNA Sequence:



Guide RNA (gRNA):



Double-strand break (DSB)



AI-Powered Optimization:

- On-target efficiency scoring
- Off-target prediction
- Edit outcome prediction

Guide RNA design

20nt spacer + scaffold optimization

Off-target prediction

Minimize unintended cuts

Efficiency scoring

On-target activity models

Prime editing

Precise base substitutions

Base editing

C→T, A→G conversions