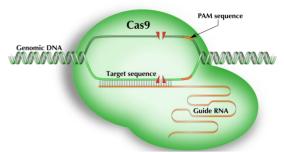
Genome Editing with CRISPR/Cas9

CRISPR/Cas9 is the cutting-edge RNA-guided genome editing tool, which is *versatile*, *simple and affordable*. Cas9 in complex with the guide RNA will lead to double-stranded break in a sequence-specific manner. Genome editing can be achieved via repair mechanism.



CRISPR/Cas9 Products

KN2.0 Gene knockout kits:

~50% bi-allelic knockout efficiency

CRISPR/Cas9 vectors (All-in-one, Lenti, Cas9)

Cas9 antibodies / Cas9 enzymes

AAVS1 / ROSA26 transgene insertion

Expression in genomic safe location

Custom Services

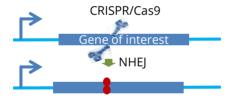
gRNA cloning service into CRISPR vectors

\$175, sequenced and ready to use

Donor vector of your own design

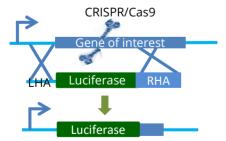
Applications using CRISPR/Cas9 as a genome editing tool

1. Indels (no donor template DNA)

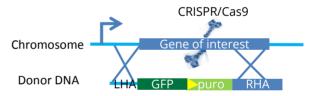


3. Native Promoter Study

Luciferase under the endogenous promoter

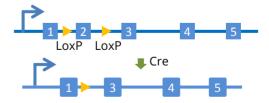


2. Gene knock-out with a reporter(s) knock-in



4. Conditional knockout

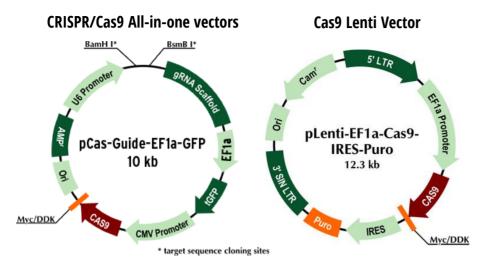
For essential genes or tissue-specific study inserting LoxP sites around the exon(s) to be knocked-out

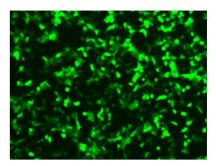


- 5. Specific mutations (with donor template DNA)
- SNPs—SNP associated disease, gene correction
- Desired deletions/insertions
- Tagging the endogenous genes



Genome Editing with CRISPR/Cas9





pCas-Guide-EF1a-GFP was transfected into HEK293 cells. The fluorescent picture shows the expression of GFP.

More CRISPR vectors: https://www.origene.com/products/vectors/crispr-vectors

Scheme of Genome-editing knockout: KN2.0

