

CRISPR/Cas 9

GENOME EDITING TOOL

CRISPR/CAS9 GENOME KNOCK-OUT KITS

KEY FEATURES:

- Complete kit for gene knock-out via CRISPR (targeted sites around the 5' end of the ORF)
- 2 guide RNA vectors in pCas-Guide to ensure an efficient cleavage
- Donor vector with predesigned homologous arms
- Knock-in GFP-Puromycin for selection

APPLICATIONS:

- Knock-in GFP reporter for promoter study
- Knock-out genes at chromosomal level

Human & Mouse kits available

CRISPR AND CAS9 IN LENTIVIRAL SYSTEM

Cas9 expressing lentivirus and lentivector cloning kits for guide RNA expression.

CAS9 EXPRESSION LENTIVIRUS:

1. Choose between different promoters
2. Different antibiotic markers and fluorescent markers available

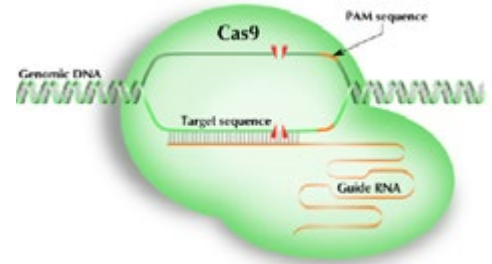
KEY FEATURES OF gRNA LENTIVECTOR CLONING KIT:

- Pre-linearized lentivector
- Precise directional cloning of gRNA structure
- Option of fluorescent marker
- Long-term expression
- Optional inducible knockdown with H1 promoter

THE CUTTING EDGE GENOME EDITING TOOL

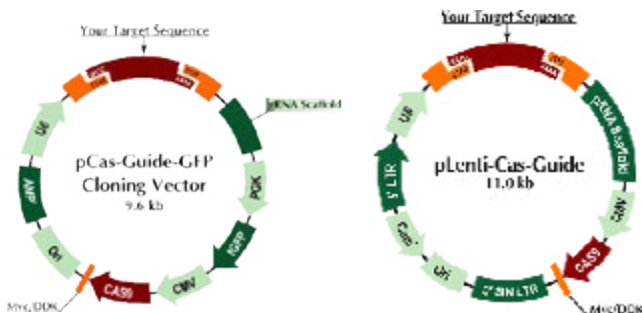
CRISPR/Cas9 allows for specific genome disruption and replacement in a flexible and simple system resulting in high specificity and low cell toxicity.

The CRISPR/Cas9 genome editing system requires the co-expression of a Cas9 protein with a guide RNA vector. Cas9 will unwind the DNA duplex and cleave both strands upon recognition of a target sequence by the guide RNA. The functional cassette synthesized in the rescue donor vector can then be inserted into the unwound DNA. The repaired genome will now express your desired sequence with or without tags.

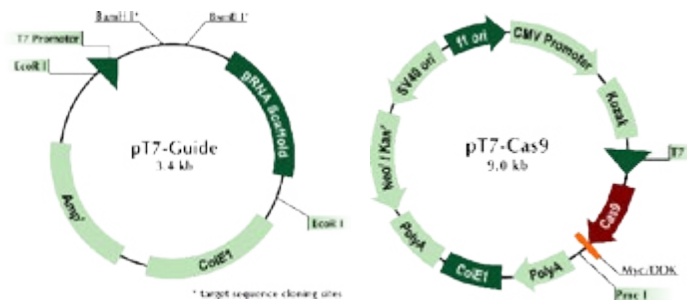


- All-in-one vectors (Cas9 and guide RNA)
- T7 vector series-Cas9 mRNA and gRNA IVT production
- Custom Cloning Services
- Specific Genome Disruption
- Flexible & Simple System
- High Efficiency & Low Cell Toxicity

ALL-IN-ONE VECTORS



T7 VECTORS



Custom Services

- Target Sequence cloning into CRISPR/Cas vector
- Donor vector construction with a predesigned cassette
- Donor vector of your own design

Description	Cat No.	Pack Size
pCas-Guide Cloning Kit	GE100001	10 rxn
pCas-Guide-Nickase vector for gRNA cloning (with Cas9 D10A expression)	GE100019	10 µg
AAVS1 Transgene knock-in vector kit	GE100027	1 x kit