

## Guide-it™ Genotype Confirmation Kit

**Catalog No.**

632611

**Amount**

100 rxns

**Lot Number**

Specified on product label.

### Description

The CRISPR/Cas9 system has been harnessed to create a simple, RNA-programmable method to mediate genome editing in mammalian cells. CRISPR/Cas9 editing generates insertions or deletions (indels) that can result in gene knockout. In most cases, cells have two copies of any given gene and indel mutations can be generated in either one or both alleles. The Guide-it Genotype Confirmation Kit provides a simple protocol to determine whether gene editing resulted in indels on one allele (monoallelic) or both alleles (biallelic) in singly isolated cells (clones), allowing for the identification of clones with desired mutations for further analysis. The kit is designed to be used in conjunction with the Guide-it sgRNA In Vitro Transcription Kit (Takara Bio, Cat. No. 631438), which generates a target-specific guide RNA used in the genotype confirmation reaction. The sequence of the guide RNA used for the genotype confirmation reaction is identical to the guide RNA used for the initial genome editing experiment.

### Package Contents

- 4 x 5 ml Extraction Buffer 1
- 1 x 2 ml Extraction Buffer 2
- 1 x 50 µl Guide-it Recombinant Cas9 Nuclease (500 ng/µl)
- 1 x 100 µl 15X Cas9 Reaction Buffer
- 1 x 100 µl Terra™ PCR Direct Polymerase Mix (1.25 U/µl)
- 3 x 1 ml 2X Terra PCR Direct Buffer (with Mg<sup>2+</sup>, dNTP)
- 4 x 2.5 ml RNase-Free Water
- 1 x 100 µl 15X BSA
- 1 x 15 µl Monoallelic Mutant Control Fragment (20 ng/µl)
- 1 x 15 µl Biallelic Mutant Control Fragment (20 ng/µl)
- 1 x 15 µl Control Fragment (20 ng/µl)
- 1 x 10 µl Control sgRNA (50 ng/µl)

### Storage Conditions

- Store at –20°C.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

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**Takara Bio USA, Inc.**

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# Certificate of Analysis

Cat. No. 632611

Guide-it Genotype Confirmation Kit

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## Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://takarabio.com/manuals)

The following documents apply to this product:

- Guide-it Genotype Confirmation Kit Protocol-At-A-Glance
- Guide-it sgRNA In Vitro Transcription Kit User Manual
- Terra PCR Direct Polymerase Mix Protocol-At-A-Glance
- Terra PCR Direct Polymerase User Manual

## Quality Control Data

Target fragments amplified from genomic DNA of wild-type and biallelic mutant cells (614 bp) resulted in >95% and <5% cleavage (350 bp and 264 bp fragments), respectively.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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