

## Guide-it™ Mutation Detection Kit

Catalog Nos.	Amount	Lot Number
631443	100 rxns	Specified on product label.
631448	25 rxns	Specified on product label.

### Description

The Guide-it Mutation Detection Kit contains all the reagents needed for PCR-based identification of insertions or deletions generated during cellular non-homologous end joining (NHEJ) repair. The first step is the amplification of the putative target sequence directly from cells. This kit uses Terra™ PCR Direct Polymerase Mix and buffer, so there is no need to extract genomic DNA from your cell population prior to amplification of your target sequence. The amplicon is then melted and hybridized to form the mismatched targets for cleavage by the Guide-it Resolvase. Sufficient material is provided for 100 amplification and cleavage reactions.

### Package Contents

<u>631443</u> (100 rxns)	<u>631448</u> (25 rxns)	
4 x 5 ml	1 x 5 ml	Extraction Buffer 1
1 x 2 ml	1 x 500 µl	Extraction Buffer 2
1 x 100 µl	1 x 25 µl	Guide-it Resolvase
1 x 100 µl	1 x 25 µl	Terra PCR Direct Polymerase Mix (1.25 U/µl)
3 x 1 ml	1 x 750 µl	2X Terra PCR Direct Buffer (with Mg <sup>2+</sup> , dNTP)
5 x 1 ml	1 x 1 ml	PCR-Grade Water
1 x 75 µl	1 x 75 µl	Positive Control DNA for Resolvase

### Storage Conditions

- Store at –20°C.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

### Product Documents

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

The following documents apply to this product:

- Guide-it Mutation Detection Kit Protocol-At-A-Glance
- Terra PCR Direct Polymerase Mix Protocol-At-A-Glance
- Terra PCR Direct Polymerase User Manual

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

Cat. Nos. 631443 & 631448

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## Quality Control Data

### **Terra PCR Direct Polymerase Mix**

Terra PCR Direct was used to amplify 0.5 kb and 2 kb targets from human genomic DNA. The enzyme produced high yields of each target, with little or no background. No endonuclease or exonuclease activity was detected.

### **Guide-it Resolvase**

No exonuclease or endonuclease activity was detected.

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

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### CATALOG NOS.

631443 & 631448

### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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