

## Guide-it™ Ligation Components

Catalog No(s).	Amount	Lot Number
632605 (Not sold separately) Sold as a part of Cat. Nos. 632601 & 632602	10 rxns	Specified on product label.

### Description

The Guide-it Ligation Components are provided as part of the Guide-it CRISPR/Cas9 System (Green) (Cat. No. 632601) and the Guide-it CRISPR/Cas9 System (Red) (Cat. No. 632602). These kits are designed for simple cloning of a target sequence for single guide RNA (sgRNA) expression, for mammalian gene editing using CRISPR/Cas9 technology.

### Package Contents

- 50 µl DNA Ligation Mighty Mix
- 1.5 ml Guide-it Oligo Annealing Buffer
- 10 µl Guide-it Control Annealed Oligos (100 fmol/µl)
- 10 µl Guide-it Sequencing Primer 1 (100 pmol/µl)
- 1 ml PCR Grade Water

### Storage Conditions

- Store at -20°C
- Avoid repeated freeze/thaw cycles

### Shelf Life

- Specified on the product label.

### Shipping Conditions

- Dry ice (-70°C)

### Product Documents

Documents for Clontech® products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals)

The following documents apply to this product:

- Guide-it CRISPR/Cas9 System User Manual
- pGuide-it-ZsGreen1 Vector (Linear) Vector Information
- pGuide-it-TdTomato Vector (Linear) Vector Information

### Quality Control Data

pGuide-it-ZsGreen1 Vector (Linear) or pGuide-it-tdTomato Vector (Linear) (2 µl) was ligated with the Guide-it Control Annealed Oligos following the protocol outlined in the Guide-it CRISPR/Cas9 System User Manual. After ligation, 10 µl of the reaction was used to transform 100 µl of Stellar™ Competent Cells, and serial dilutions were plated on LB agar + ampicillin plates for colony counting. The total number of colonies in the positive reaction (+ Annealed Oligos) was

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#### Clontech Laboratories, Inc.

A Takara Bio Company  
1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

United States/Canada 800.662.2566 (010715)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.543.6116
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# Certificate of Analysis

Cat. No. 632605

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calculated to be  $\geq 10,000$ , whereas the negative reaction (- Annealed Oligos) yielded  $\leq 3\%$  of the positive reaction.

Sequence analysis using the Guide-it Sequencing Primer 1 verified that  $\geq 80\%$  of the colonies from the positive reaction had a correct insert.

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### CATALOG NO.

632605

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#### Clontech Laboratories, Inc.

A Takara Bio Company

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

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**United States/Canada**

**Asia Pacific**

**Europe**

**Japan**

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.543.6116