

Guide-it™ sgRNA Screening Kit

Catalog No.	Amount	Lot Number
632639 Sold as a part of 632636	50 rxns	Specified on product label.

Description

The Guide-it sgRNA Screening Kit is used to test the efficacy of single guide RNAs (sgRNAs) for studies involving Cas9-mediated gene editing. This kit allows you to perform an *in vitro* cleavage assay of a DNA sequence of interest using Cas9 nuclease and the sgRNA targeting your gene of interest. The cleavage efficiency of Cas9 can then be measured using agarose gel electrophoresis.

Package Contents

- 25 µl Guide-it Recombinant Cas9 Nuclease (500 ng/µl)
- 50 µl 15X Cas9 Reaction Buffer
- 50 µl 15X BSA
- 15 µl Control sgRNA (50 ng/µl)
- 150 µl Control Fragment (20 ng/µl)
- 50 µl Terra™ PCR Direct Polymerase Mix (1.25 U/µl)
- 1.25 ml 2X Terra PCR Direct Buffer (with Mg²⁺, dNTP)
- 5 ml RNase Free Water
- 5 ml Extraction Buffer 1
- 0.5 ml Extraction Buffer 2

Storage Conditions

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

Shelf Life

- 1 year from date of receipt under proper storage conditions.

Shipping Conditions

- Dry ice (–70°C)

Product Documents

Documents for our products are available for download at takarabio.com/manuals
The following documents apply to this product:

- Guide-it sgRNA In Vitro Transcription and Screening Systems User Manual

Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA
U.S. Technical Support: techUS@takarabio.com

United States/Canada 800.662.2566 (102417)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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Certificate of Analysis

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Quality Control Data

A control fragment (614 bp) amplified from the genomic DNA of HEK293 cells was combined with Guide-it Recombinant Cas9 Nuclease and the Control sgRNA according to the Guide-it sgRNA In Vitro Transcription and Screening Systems User Manual, resulting in >90% cleavage into two fragments (350 bp and 264 bp).

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

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STATEMENT 391

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9/11/2020

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