

Guide-it™ sgRNA Screening Kit

Catalog No.

632639

Also sold as a part of 632636

Amount

50 rxns

Lot Number

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™ Direct PCR Polymerase Mix (1.25 U/µl)
- 1.25 ml 2X Terra Direct PCR Buffer (with Mg²⁺, dNTP)
- 5 ml RNase Free Water
- 5 ml Extraction Buffer 1
- 0.5 ml Extraction Buffer 2

Storage Conditions

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

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

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

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.

Takara Bio USA, Inc.

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STATEMENT 391

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9/13/2024

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