

Guide-it™ Long ssDNA Strandase Kit v2

Catalog No.	Amount	Lot Number
632667 (Not sold separately) Sold as a part of 632666	50 rxns	Specified on product label.

Description

The Guide-it Long ssDNA Strandase Kit v2 is part of the Guide-it Long ssDNA Production System v2 (Cat. No. 632666), which is designed to produce long single-stranded DNA (ssDNA) up to 5 kb in length for use as a repair template in knockin experiments involving CRISPR/Cas9 or other genome editing tools. ssDNA is less likely to randomly integrate into the genome and has lower toxicity than double-stranded DNA (dsDNA), resulting in improved genome editing efficiency.

The Guide-it Long ssDNA Strandase Kit v2 provides the reagents necessary to convert a dsDNA PCR product into ssDNA by selectively digesting either the sense or the antisense strand. The kit contains sufficient reagents to create 50 ssDNA strands (25 pairs of sense and antisense strands). Users supply PCR primers to amplify their template from genomic DNA directly, or they can clone their desired sequence into a plasmid which is then used as a PCR template to create dsDNA. The dsDNA then serves as starting material for the generation of ssDNA using this kit.

Included in the full Guide-it Long ssDNA Production System v2, the NucleoSpin Gel and PCR Clean-Up kit (Cat. No. 740609.50) and Buffer NTC (Cat. No. 740654.100) are then used in combination to purify the ssDNA produced with this kit.

Package Contents

- 4 x 625 µl PrimeSTAR® Max Premix (2X)
- 250 µl Strandase Mix A
- 250 µl Strandase A/B Buffer (10X)
- 50 µl Strandase Mix B
- 500 µl Digestion Enhancer (5X)
- 5 x 1 ml RNase Free Water
- 50 µl 2-kb Control Template (2 ng/µl)
- 50 µl Control Primer Mix (16 µM)

Storage Conditions

- Store at -20°C.

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 632667

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Product Documents

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

The following documents apply to this product:

- Guide-it Long ssDNA Production System v2 Protocol-At-A-Glance

Quality Control Data

Guide-it Long ssDNA Production System v2 was used to produce ssDNA from 10 µg of dsDNA. It resulted in the production of a clean single band (~900 bp with dsDNA marker) as tested by agarose gel electrophoresis and the yield was more than 2.5 µg.

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

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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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT M54

This product is covered by the claims of U.S. Patent Nos. 7,704,713 and its foreign counterparts.

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