

Guide-it™ Long ssDNA Strandase Kit

Catalog No.	Amount	Lot Number
632645 Sold as a part of 632644	25 rxns	Specified on product label.

Description

The Guide-it Long ssDNA Strandase Kit is designed to produce a long single-stranded DNA (ssDNA) oligo of up to 5 kb length for use as a repair template in knockin experiments using CRISPR/Cas9 or other genome editing tools. ssDNA will not randomly integrate into the genome and has lower toxicity, resulting in improved gene editing efficiency.

This kit provides the reagents necessary to convert a double-stranded (dsDNA) PCR product into a 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 is used for the generation of ssDNA using this kit. We recommend using a NucleoSpin Gel and PCR Clean-Up kit (Cat. No. 740609.50) to purify the ssDNA (included as part of the Guide-it Long ssDNA Production System, Cat. No. 632644).

Package Contents

- 4 x 625 µl PrimeSTAR® Max Premix (2X)
- 250 µl Strandase Mix A
- 250 µl Strandase A Buffer (10X)
- 50 µl Strandase Mix B
- 2 x 1.25 ml Strandase B Buffer (2X)
- 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

- -20°C

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 Long ssDNA Production System Protocol-At-A-Glance

Takara Bio USA, Inc.

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Certificate of Analysis

Guide-it Long ssDNA Strandase Kit

Cat. No. 632645

Sold as a part of 632644

Quality Control Data

The Guide-it Long ssDNA Strandase Kit was used to produce a single-stranded DNA (ssDNA) from 10 µg of a control PCR product (dsDNA). It resulted in the production of a clean single band (~1000 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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CATALOG NO.

632645

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.

STATEMENT 272

This product ("Product") and its use, is the subject of U.S. Patents 8,697,359 and 8,771,945 and pending U.S. Patent applications. The purchase of the Product conveys to the buyer the non-transferable right to use Product(s) purchased from Takara Bio USA, Inc. or its Affiliates, and any progeny, modification or derivative of a Product, or any cell or animal made or modified through use of a Product, or any progeny, modification or derivative of such cell or animal ("Related Material"), solely for research conducted by the buyer in accordance with all of the following requirements. No right is given to use this Product or Related Material for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. The buyer shall not sell or otherwise transfer Products (including without limitation any material that contains a Licensed Product in whole or part) or any Related Material to any other person or entity, or use Products or any Related Material to perform services for the benefit of any other person or entity, (ii) the buyer shall use only the purchased amount of the Products and components of the Products, and shall use any Related Material, only for its internal research and not for (a) the practice, performance or provision of any method, process or service, or (b) the manufacture, sale, use, distribution, disposition or importing of any product, in each case (a) or (b) for consideration, or on any other commercial basis ("Commercial Purpose"), (iii) the buyer shall use Licensed Products and any Related Material in compliance with all applicable laws and regulations, including without limitation applicable human health and animal welfare laws and regulations, and (iv) the buyer shall indemnify, defend and hold harmless MIT, Harvard and The Broad and their current and former trustees, directors, officers, faculty, affiliated investigators, students, employees, and agents and their respective successors, heirs and assigns ("Indemnitees"), against any liability, damage, loss, or expense (including without limitation reasonable attorneys' fees and expenses) incurred by or imposed upon any of the Indemnitees in connection with any claims, suits, investigations, actions, demands or judgments arising out of or related to the exercise of any rights granted to the buyer, or any breach of the rights granted hereunder by the buyer.

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7/3/2019

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Notice to Purchaser



STATEMENT 325

Patent pending. For further information, please contact a Takara Bio USA licensing representative by email at licensing@takarabio.com.

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