

pGuide-it-tdTomato Vector (Linear)

Catalog No.	Amount	Lot Number
632604 (Not sold separately) Sold as a part of 632601	20 μ l	Specified on product label.

Description

The pGuide-it-tdTomato Vector (Linear) is provided as part of the Guide-it™ CRISPR/Cas9 System (Red). This kit is designed for cloning and expression of a target single guide RNA (sgRNA) for mammalian gene modification studies using CRISPR/Cas9 technology. Cas9 nuclease and tdTomato fluorescent protein are co-expressed from a bidirectional CMV promoter. The plasmid is supplied pre-linearized for simple insertion of the genome-targeting encoding section of the sgRNA downstream of a human U6 promoter.

Package Contents

- 20 μ l pGuide-it-tdTomato Vector (Linear) (7.5 ng/ μ l)

Storage Conditions

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

Shelf Life

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

Storage Buffer

- 10 mM Tris-HCl (pH 8.0), 1 mM EDTA (pH 8.0)

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 CRISPR/Cas9 System User Manual
- pGuide-it-tdTomato Vector (Linear) Vector Information

Propagation in *E. coli*

- Recommended host strain: Stellar™ Competent Cells (Cat. No. 636763)
- Selectable marker: Plasmids confer resistance to ampicillin (100 $\mu\text{g/ml}$) in *E. coli* hosts.
- *E. coli* replication origin: pUC

Takara Bio USA, Inc.

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Certificate of Analysis

pGuide-it-tdTomato Vector (Linear) (Not sold separately)

Cat. No. 632604

Sold as a part of 632602

Quality Control Data

Cloning efficiency

2 µl of pGuide-it-tdTomato (Linear) was ligated with 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. The total number of colonies in the positive reaction (with the annealed control oligos) was calculated to be 10,000 or more colonies, and the negative reaction (without the annealed control oligos) yielded $\leq 3\%$ of the positive reaction. Sequence analysis using the Guide-it Sequencing Primer 1 verified that 80% or more of the colonies from the positive reaction had a correct insert.

Plasmid Identity

- Prior to linearization, digestion with the indicated restriction enzymes produced fragments of the indicated sizes on a 1% agarose/EtBr gel:

Vector	Enzyme(s)	Size (kb)
pGuide-it-tdTomato	EcoRI	9.1 kb
pGuide-it-tdTomato	NdeI	5.1 kb, 4.0 kb

- Vector identity was confirmed by sequencing.
- A_{260}/A_{280} : 1.8–2.0

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

pGuide-it-tdTomato Vector (Linear)

CATALOG NO.

632604

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