

## Guide-it™ Flap Reagents

Catalog Nos.	Amount	Lot Number
632655 (Not sold separately; sold as a part of 632652)	100 rxns	Specified on product label.
632656 (Not sold separately; sold as a part of 632653)	400 rxns	Specified on product label.

### Description

The Guide-it Flap Reagents (Cat. Nos. 632655 and 632656) are supplied as part of the Guide-it SNP Screening Kit (Cat. Nos. 632652 and 632653, respectively) and contain the enzymes, buffers, and a detection reagent required for the kit protocol. The Guide-it SNP Screening Kit provides the ability to identify clones containing a single nucleotide polymorphism (SNP) from 96-well plates. The simple and rapid kit workflow comprises of PCR amplification of the genomic target site followed by an enzymatic assay with a fluorescent readout. The enzymatic assay employs a standard fluorescence plate reader, and no additional special instrumentation is required. The overall workflow takes approximately four hours to complete, and the stringency of the assay is such that detection of a fluorescent signal is positively correlated with the successful introduction of the desired SNP.

### Package Contents

<u>623655</u>	<u>632656</u>	
(100 rxns)	(400 rxns)	
50 µl	200 µl	Terra™ PCR Direct Polymerase Mix
2 x 750 µl	5 x 1 ml	2X Terra PCR Direct Buffer (with Mg <sup>2+</sup> , dNTP)
8 ml	32 ml	Dilution Buffer
10 ml	2 x 20 ml	RNase-free Water
350 µl	1.4 ml	Annealing Buffer
350 µl	1.4 ml	Flapase Buffer
100 µl	400 µl	Guide-it Flapase
50 µl	200 µl	Guide-it Flap Detector (40X)

### Storage Conditions

- Store at –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](http://takarabio.com/manuals)

The following documents apply to this product:

- Guide-it SNP Screening Kit User Manual

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#### Takara Bio USA, Inc.

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## Quality Control Data

### Terra PCR Direct Polymerase Mix and 2X Terra PCR Direct Buffer (with $Mg^{2+}$ , dNTP)

#### Purity:

Supercoiled pBR322 DNA (0.6  $\mu$ g) and HindIII-digested  $\lambda$  DNA (0.6  $\mu$ g) were incubated with 10 units of Terra PCR Direct Polymerase for 1 hour at 74°C; no nicking, endonuclease, or exonuclease activity was detected.

#### Activity:

1. Terra PCR Direct Polymerase Mix was used to amplify 0.5- and 2-kb targets from human genomic DNA. The enzyme produced high yields of each target, with little or no background.
2. Terra PCR Direct Polymerase Mix was used to amplify a 4-kb target from mouse genomic DNA. The enzyme produced high yields of the target, with little or no background.

### Dilution Buffer

Dilution Buffer has been tested for pH and conductivity following standard procedures.

### Guide-it Flapase, Flapase Buffer, Annealing Buffer, Guide-it Flap Detector (40X) and RNase-free Water

The Guide-it SNP Control Set was used to detect the substitution G>T in the *MTHFR* gene following the protocol described in the user manual. The resulting fluorescent signal had a Z-factor >0.6. The ratio between the positive and the negative signals was  $\geq 3$ , and the ratio between the positive and the background signals was  $\geq 6$ .

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

## Guide-it™ Flap Reagents

### CATALOG NOS.

632655, 632656

### NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Takara Bio USA, Inc.

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