

# Product Components List

## Guide-it™ SNP Screening Kit

Catalog Nos.	Amount
632652	100 rxns
632653	400 rxns

### Description

The Guide-it SNP Screening Kit is designed to quickly identify single-base changes in clonal cell populations edited using the CRISPR/Cas9 system. One of the most powerful applications of CRISPR/Cas9-mediated genome editing is the introduction of base changes in specific genomic sites to mimic single nucleotide polymorphisms (SNPs) related to human diseases or to introduce stop codons to generate precise gene knockouts. However, screening thousands of clones for a single edited base remains a challenge, especially in the absence of a phenotype. The Guide-it SNP Screening Kit provides the ability to quickly identify edited clones from 96-well plates, employing a simple and rapid workflow that comprises PCR amplification of the genomic target site followed by an enzymatic assay with a fluorescent readout. The overall workflow takes approximately four hours to complete and uses a standard fluorescence plate reader. The stringency of the assay is such that detection of a fluorescent signal is positively correlated with the successful introduction of the desired SNP. This method performs comparably regardless of the specific base substitution, the resulting zygosity of the clone, or the sequence of the targeted locus.

### Package Contents

#### 632652 (100 rxns):

- Guide-it Flap Reagents (Cat. No. 632655; not sold separately) [>>View Components](#)
- MightyPrep Reagent for DNA (Cat. No. 9182A; not sold separately) >> Please visit [takarabio.com/manuals](http://takarabio.com/manuals) to locate the Certificate of Analysis by entering the lot number for your particular lot of MightyPrep
- Guide-it SNP Control Set (Cat. No. 632654; not sold separately) [>>View Components](#)

#### 632653 (400 rxns):

- Guide-it Flap Reagents (Cat. No. 632656; not sold separately) [>>View Components](#)
- MightyPrep Reagent for DNA (Cat. No. 9182) [>> Please visit product page to locate the Certificate of Analysis for your particular lot of MightyPrep](#)
- Guide-it SNP Control Set (Cat. No. 632654; not sold separately) [>>View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

### 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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This document has been reviewed and approved by the Quality Department.