

SuperPlex™ Premix

Catalog Nos.	Amount	Lot Number
638543	200 rxns	Specified on product label.
638544	1,000 rxns	Specified on product label.

Description

SuperPlex Premix is a 2X master mix containing a 5' to 3' exonuclease-deficient *Taq* polymerase and the TaqStart® Antibody, a monoclonal antibody that inhibits the activity of *Taq* and *Taq*-derived polymerases at ambient temperatures during PCR reaction assembly. The presence of the TaqStart Antibody in the polymerase mix allows automatic hot-start PCR. Enough premix is supplied for 200 or 1,000 reactions of 50 µl each.

Package Contents

<u>638543</u> (200 rxns)	<u>638544</u> (1,000 rxns)	
5 x 1 ml	5 x 5 ml	SuperPlex Premix

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

The following documents apply to this product:

- SuperPlex Premix Protocol-At-A-Glance

Takara Bio USA, Inc.

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Quality Control Data

Raw-Material Quality Control

SuperPlex Premix was tested for enzymatic activity and PCR performance. Endonuclease, exonuclease, and DNA contamination assays were also performed.

Functional Quality Control

Amplification from a cDNA template:

SuperPlex Premix was tested in a 50- μ l PCR reaction using 5 μ l of Marathon[®]-Ready Human Placenta cDNA (Cat. No. 639311) as template and primers (0.2 μ M each) specific for a 1.3-kb fragment from the transferrin receptor gene. Cycling conditions were set at:

1 cycle	95°C for 1 min
30 cycles	95°C for 15 sec
	68°C for 1.5 min
1 cycle	68°C for 3 min

5 μ l of the PCR product was run on a 1.2% TAE/agarose gel to confirm the presence of a 1.3-kb product with minimal background. PCR product concentration was measured by fluorometry. The yield was determined to be >5 ng/ μ l.

Amplification from a genomic DNA template

SuperPlex Premix was tested in a 50- μ l PCR reaction using 100 ng of calf thymus genomic DNA as template and primers (0.4 μ M each) specific for a 407-bp fragment of the bovine pancreatic trypsin inhibitor (BPTI) gene. Cycling conditions were set at:

1 cycle	94°C for 3 min
30 cycles	94°C for 30 sec
	68°C for 1.5 min
1 cycle	68°C for 3 min

5 μ l of PCR product was run on a 1.2% TAE/agarose gel to confirm the presence of a 407-bp product with minimal background. PCR product concentration was measured by fluorometry. The yield was determined to be >15 ng/ μ l.

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

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CATALOG NO.

638543, 638544

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.

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