



# Rapi:chip™ and Rapi:chip/16™ PCR Chip for **GENECHECKER®**

## New sample format makes HUGE difference.

**New PCR concept was born when precision molding technology met film bonding know-how.**

The key for achieving ultra-fast gene amplification is rapid heating and cooling of the sample. **Rapi:chip™** was developed from understanding of the challenges in routine PCR tasks. PCR duration could be dramatically reduced when efficient heat transfer is made during thermal cycling process. Genesystem's own technology of manufacturing precise 3-dimensional polymer chips leveraged by its film bonding know-how created new sample format, **Rapi:chip™** for PCR applications. Sample is loaded into wide flat wells in the chip with the volume of 10µl. Bottom surface of **Rapi:chip™** which is in tight contact with heat block is made of thin film so that efficient heat transfer from heat block to the sample in the chip is facilitated. As a certified manufacturer, Genesystem is manufacturing all **Rapi:chip™** line of products in accordance with GMP guidelines.

**Two types of PCR chip are supplied for real-time analysis and thermal cycling.**

**Rapi:chip™** is supplied in two formats. Standard version of chip has 10 wells and the top of each well is open for real-time analysis of fluorescence signal.

**Rapi:chip/16™** is a new version which can accommodate 16 samples in it and is ideal for amplifying more samples at once.

The heat is efficiently delivered due to the wide flat shaped chamber where the samples are loaded.

Well volume is 10µl only, which helps faster heating and cooling.

Bottom surface of chip is made of thin film for efficient heat transfer.

Contamination free and transformation free.

Two types of PCR chip for real-time analysis and thermal cycling

# More about Rapi:chip™



## SPECIFICATION

<b>Size (W x D x H)</b>	38mm x 25mm x 6mm
<b>Weight</b>	3.56 g
<b>Number of Wells</b>	10 wells for Model UF-150 and 16 wells for Model UF-100
<b>Volume of Each Well</b>	10µl
<b>Aperture Diameter</b>	Φ 0.6 mm
<b>Channel Height</b>	0.5 mm
<b>Channel Height</b>	8 mm
<b>Channel Height</b>	2 mm
<b>Material</b>	Transparent Polymer (Transparency : 95% +)

## HOW TO LOAD SAMPLES

### STEP 1.

Prepare sample according to suggested protocol. Reaction volume should be 10µl.

### STEP 2.

Using micropipette, aspirate prepared sample mixture (10µl).

### STEP 3.

Place pipette tip into the inlet hole of Rapi:chip™ and dispense whole volume of aspirated sample.

### STEP 4.

Seal entire holes using the enclosed sealing tapes. Scrub the surface of sealed area to secure sealing.

### 1 5

#### Wings

These parts are used for easy handling with fingers or tweezers.

### 2

#### Printed Well Numbers

Well number is printed on the upper surface of chip for easy identification.

### 3 4

#### Apertures

Pipette tip fits in these apertures so that sample and reagent could be loaded or collected easily.

## ORDERING INFORMATION

### Cat. No. Description / Pack Size

002001	Rapi:chip™ PCR Chip for <b>GENECHECKER</b> Model UF-150 - Small Pack / 48/PK
002002	Rapi:chip™ PCR Chip for <b>GENECHECKER</b> Model UF-150 - Medium Pack / 384/PK
002003	Rapi:chip™ PCR Chip for <b>GENECHECKER</b> Model UF-150 - Large Pack / 768/PK
002004	Rapi:chip/16™ PCR Chip for <b>GENECHECKER</b> Model UF-100 - Small Pack / 48/PK
002005	Rapi:chip/16™ PCR Chip for <b>GENECHECKER</b> Model UF-100 - Medium Pack / 384/PK
002006	Rapi:chip/16™ PCR Chip for <b>GENECHECKER</b> Model UF-100 - Large Pack / 768/PK



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