



Rapi:chip™ The PCR Chip for Ultra-Fast reactions

Upgrade to a new format, the Microfluidic Chip!

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

Rapi:chip™ was developed from the understanding of the challenges in routine PCR. We found the protocols duration could be dramatically reduced when efficient heat transfer is made during the thermal cycling process. By designing a unique 3-dimensional polymer chip where the bottom surface is made of a thin film and precisely bonded with a polymer body, ultra-fast thermal cycling became possible.

Options are available for both thermal cycling and real-time PCR analysis.

Rapi:chip™ is supplied in two formats. The QPCR version of the chip has 10 wells and the top of each well is open for real-time fluorescence measurement.

Rapi:chip/16™ is a version which can accommodate 16 samples and is ideal for amplification of standard PCR. It does not have the capability for analysis of a fluorescence signal.

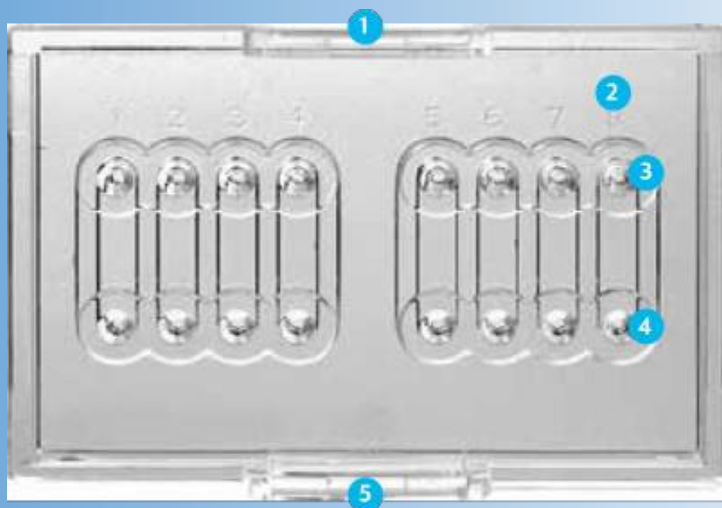
Design is optimized for reducing the time for gene amplification

The Flat wide chamber allows the most efficient transfer of heat to the sample

A 10µl well volume assists in the fast heating and cooling

The bottom surface of the chip is made from a thin film for efficient heat transfer

Contamination and transformation free



1 & 5. Wings -

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

2. Printed Well Numbers -

The Well numbers are printed on the upper surface of the chip for easy identification.

3 & 4. Apertures -

Pipette tips fit in these apertures so that sample and reagent can be loaded or collected easily.

Specifications

Rapi:chip™ and Rapi:chip/16™ PCR Chip for GENECHECKER®	
Dimension	38mm (w) x 25mm (d) x 6 mm (h)
Weight	3.56 g
Number of Wells	10 Wells (Rapi:chip™), 16 Wells (Rapi:chip/16™)
Volume of Each Well	10 µL
Aperture Diameter	0.6mm
Channel Height	0.5mm
Channel Length	8.0mm
Channel Width	2.0mm
Material	Transparent Polymer
Transparency	More than 95%

Ordering Information

Cat. No.	Description	Pack
002001	Rapi:chip™ PCR Chip for GENECHECKER® – Small Pack	48/PK
002002	Rapi:chip™ PCR Chip for GENECHECKER® – Medium Pack	384/PK
002003	Rapi:chip™ PCR Chip for GENECHECKER® – Large Pack	768/PK
002004	Rapi:chip/16™ PCR Chip for GENECHECKER® – Small Pack	48/PK
002005	Rapi:chip/16™ PCR Chip for GENECHECKER® – Medium Pack	384/PK
002006	Rapi:chip/16™ PCR Chip for GENECHECKER® – Large Pack	768/PK
003001	Car Connection Power Kit	1 SET

How to load samples

Step 1:

Prepare sample according to suggested protocol. Volume of sample mixture should be 10µ

Step 2:

Using micropipette, aspirate prepared sample mixture (10µ)

Step 3:

Place Pipette tip into the inlet hole of Rapi:chip™ and dispense the entire volume of the aspirated sample

Step 4:

Seal all holes using the enclosed sealing tape, rub the surface of the sealed area to secure the sealing

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