

PicoPLEX® Gold Single Cell DNA-Seq Kit

Catalog Nos.	Amount	Lot Number
R300669	24 rxns	Specified on product label.
R300670	96 rxns	Specified on product label.

Description

The PicoPLEX Gold Single Cell DNA-Seq Kit is designed to generate high-quality DNA libraries from single cells for sequencing on Illumina® platforms. The kit is based on our patented PicoPLEX technology and yields libraries with superior reproducibility from 1–5 mammalian cells or genome equivalents of gDNA as input, providing reliable results from challenging samples such as formalin-fixed single cells.

The kit features a streamlined workflow consisting of four steps—from input to amplified NGS libraries—that can be completed in less than four hours. The kit uses high-fidelity enzymes and optimized primers and is suitable for accurate and reproducible profiling of copy number variants (CNVs), single-nucleotide variants (SNVs), indels, and other small structural variants. The kit is compatible with single cells and purified DNA from humans, animals, and bacteria, as well as single flow-sorted chromosomes.

Package Contents

<u>R300669</u> (24 rxns)	<u>R300670</u> (96 rxns)	
116 µl	461 µl	Cell Extraction Buffer
5 µl	20 µl	Cell Extraction Enzyme
208 µl	835 µl	PreAmp Buffer
31 µl	130 µl	PreAmp Enzyme
500 µl	2 x 1,000 µl	Amplification Buffer
60 µl	240 µl	Amplification Enzyme
500 µl	1,000 µl	Nuclease-Free Water

Storage Conditions

- Store at –20°C.

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://www.takarabio.com/manuals)

The following documents apply to this product:

- PicoPLEX Gold Single Cell DNA-Seq Kit User Manual

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. Nos. R300669 & R300670

PicoPLEX Gold Single Cell DNA-Seq Kit

Quality Control Data

A sample kit from each lot was tested as follows: 16.7 pg of NA12878 gDNA was used in quadruplicate as input for PicoPLEX Gold Single Cell DNA-Seq Kit to convert to Illumina sequencing-ready libraries as described in the User Manual. Cell extraction was followed by 16 cycles of Pre-Amp in 20 µl volume, purification with AMPure beads, and 12 cycles of PCR amplification with dual barcoding oligos. Libraries were further purified using AMPure beads and eluted in 20 µl of TE buffer.

Purified libraries were quantified using the Qubit 2.0 Fluorometer (Thermo Fisher Scientific) with a dsDNA HS Assay Kit, resulting in an output of at least 1 µg total DNA yield. The libraries were then sequenced on an Illumina NextSeq[®] platform and produced a minimum number of 20 million reads per library with an average insert size of 300 bp, with <5% reads not mapping to the human genome, <1% adaptor reads, a balanced GC distribution, and <3% mismatch rate.

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

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R300669 & R300670

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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

STATEMENT M54

This product is covered by the claims of U.S. Patent Nos. 7,704,713 and its foreign counterparts.

STATEMENT 325

Patent pending. For further information, please contact a Takara Bio USA licensing representative by email at licensing@takarabio.com.

STATEMENT 328

This product is protected by U.S. Patents 8,206,913 and corresponding foreign patents. Additional patents are pending. For further license information, please contact a Takara Bio USA licensing representative by email at licensing@takarabio.com.

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1/24/2023