

## ThruPLEX® Plasma-Seq Kit

Catalog Nos.	Amount	Lot Number
R400679	24 rxns	Specified on product label
R400680	48 rxns	Specified on product label
R400681	96 rxns	Specified on product label

### Description

The ThruPLEX Plasma-Seq is powered by ThruPLEX chemistry to generate high-performance NGS libraries from cell-free DNA isolated from plasma. The chemistry is optimized specifically for cell-free DNA to maximize the library complexity and to preserve the GC representation of the input DNA. Libraries can be used for CNV analysis, whole genome sequencing applications, or enrichment using your custom panels or leading target enrichment platforms, such as Agilent SureSelect and Roche NimbleGen SeqCap EZ.

Libraries prepared with ThruPLEX Plasma-Seq provide added sensitivity to better understand genetic variations found within the plasma samples. Plasma, along with other liquid biopsies, has gained significant interest in the research community as a valuable and easily available sample type. These communities include translational research in oncology and developmental research involving the fetal fraction derived from maternal plasma.

### Package Contents

<u>R400679</u> (24 rxns)	<u>R400680</u> (48 rxns)	<u>R400681</u> (96 rxns)	Item name
105 µl	205 µl	405 µl	Template Preparation P Buffer
25 µl	50 µl	105 µl	Template Preparation P Enzyme
65 µl	130 µl	255 µl	Library Synthesis P Buffer
65 µl	130 µl	255 µl	Library Synthesis P Enzyme
545 µl	1,100 µl	2 x 1,100 µl	Library Amplification P Buffer
25 µl	50 µl	105 µl	Library Amplification Enzyme
500 µl	500 µl	500 µl	Nuclease-Free Water

### 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](http://takarabio.com/manuals)

The following documents apply to this product:

- ThruPLEX Plasma-Seq Kit User Manual

#### Takara Bio USA, Inc.

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U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

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# Certificate of Analysis

Cat. No. R400679, R400680, & R400681

ThruPLEX Plasma-Seq Kit

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## Quality Control Data

These components have been functionally validated through library construction (using 5 ng of purified cell-free DNA isolated from human plasma and a no-template control), real-time amplification analysis, and sequencing of the pooled libraries on the Illumina® Sequencing Platform.

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Quality Control Testing	
Test Parameter	Result
% mapped reads	X ≥ 98%

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

## ThruPLEX® Plasma-Seq Kit

### CATALOG NO.

R400679, R400680, R400681

### 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 326

This product is protected by U.S. Patents 7,803,550; 8,399,199; 8,728,737, 9,598,727, 10,196,686, 10,208,337 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](mailto:licensing@takarabio.com).

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