

## ThruPLEX® DNA-Seq HV Core Components

Catalog Nos.	Amount	Lot Number
R400737 (Also sold as a part of R400741)	24 rxns	Specified on product label.
R400736 (Also sold as a part of R400740)	96 rxns	Specified on product label.

### Description

The ThruPLEX DNA-Seq HV Core Components are part of the complete ThruPLEX DNA-Seq HV kit, which uses our proprietary ThruPLEX chemistry for construction of sample-indexed Illumina® NGS libraries starting with up to 30 µl of fragmented double-stranded DNA in a three-step single tube workflow in about two hours. No intermediate purification steps or sample transfers are necessary, preventing handling errors and loss of valuable samples.

The chemistry is optimized for 5–200 ng of fragmented double-stranded DNA to maximize the library complexity and preserve the GC representation of the input DNA.

It has been optimized for use with small fragments of DNA such as cell-free plasma DNA or damaged DNA from formalin-fixed paraffin-embedded (FFPE) tissue. Libraries can be used for whole genome sequencing applications, or targeted sequencing using downstream target enrichment panels.

Pairing ThruPLEX DNA-Seq HV with ThruPLEX HV unique dual indexes (UDIs) adds the capability of multiplexing up to 96 NGS-ready libraries. Once purified and quantified, the resulting libraries are ready for Illumina NGS instruments using standard Illumina sequencing reagents and protocols.

### Package Contents

<u>R400737</u> (24 rxns)	<u>R400736</u> (96 rxns)	
10 µl	10 µl	Control Fragmented Human gDNA (5 ng/µl)
140 µl	550 µl	PBD1
30 µl	110 µl	PED1
30 µl	110 µl	SBD1
110 µl	440 µl	SED1
1,160 µl	4 x 1,160 µl	ABD1
60 µl	220 µl	AED1
1,000 µl	1,000 µl	Nuclease-Free Water

### Storage Conditions

- Store at –20°C.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

ThruPLEX DNA-Seq HV Core Components

Cat. Nos. R400736 & R400737

Also sold as a part of R400740 & R400741

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## Product Documents

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

The following documents apply to this product:

- ThruPLEX DNA-Seq HV User Manual

## Quality Control Data

These components have been functionally validated through library construction (using 1 ng of human gDNA sheared to an average of 250 bp and a no-template control), real-time amplification analysis, and sequencing of the pooled libraries on an Illumina sequencing platform.

## Quality Control Testing

Test Parameter	Result
Contamination	$\Delta Ct \geq 6$
Yield	$\geq 500$ ng
Library size	300–460 bp
% mapped reads	$\geq 90\%$

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

## ThruPLEX® DNA-Seq HV Core Components

### CATALOG NOS.

R400736 & R400737

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### STATEMENT 326

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4/19/2023