

## DNA SMART™ ChIP-Seq Components

Catalog Nos.	Amount	Lot Number
634868 (Not sold separately; sold as a part of 634865)	12 rxns	Specified on product label.
634872 (Not sold separately; sold as a part of 634866 & 634867)	48 rxns	Specified on product label.

### Description

These components are a part of the DNA SMART ChIP-Seq Kit. This kit utilizes our DNA SMART (Switching Mechanism at 5' end of RNA Template) technology to generate Illumina®-compatible sequencing libraries from double-stranded or single-stranded DNA. Libraries are generated without additional enzymatic cleanup or adapter ligation steps. The DNA SMART ChIP-Seq Kit preserves excellent library complexity from as little as 500 pg of template in a convenient single-tube format.

### Package Contents

#### Package 1:

<u>634868</u> (12 rxns)	<u>634872</u> (48 rxns)	
72 µl	288 µl	DNA SMART Oligonucleotide Mix*

#### Package 2:

<u>634868</u> (12 rxns)	<u>634872</u> (48 rxns)	
9 µl	36 µl	Shrimp Alkaline Phosphatase (1 U/µl)
12 µl	48 µl	Terminal Deoxynucleotidyl Transferase
48 µl	192 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)
111 µl	444 µl	DNA SMART Buffer
12 µl	48 µl	DNA SMART T-Tailing Mix
24 µl	96 µl	DNA SMART Poly(dA) Primer*
1 ml	2 x 1 ml	DNA Dilution Buffer (5 mM)
10 µl	10 µl	Control Fragmented Human gDNA (5 ng/µl)
40 µl	120 µl	DNA SMART Custom Read2 Seq Primer (100 µM)
500 µl	2 x 1 ml	Library Elution Buffer

\*Proprietary sequences

### Storage Conditions

- Store Package 1 contents at –70°C.
- Store Package 2 contents at –20°C.

### Expiration Date

- Specified on product label.

#### 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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+81.(0)77.565.6999

# Certificate of Analysis

DNA SMART ChIP-Seq Components (Not sold separately)

Cat. Nos. 634868 & 634872

Sold as a part of 634865, 634866 & 634867

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## Shipping Conditions

- Dry ice

## 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:

- DNA SMART ChIP-Seq Kit User Manual

## Quality Control Data

A sample kit from each lot was tested as follows: 1 ng of Control Fragmented Human gDNA (fragments ranging from 75–900 bp) was first subjected to the DNA SMART assay as described in the user manual and amplified using 14 cycles of PCR with the SeqAmp™ DNA Polymerase. PCR products were purified with Agencourt AMPure XP SPRI Reagent (Beckman Coulter, Product No. A63880, A63881, or A63882) as described in Option 4 of the user manual then resuspended in 20 µl of Library Elution Buffer. Purified libraries were quantified using a Qubit 2.0 Fluorometer with a dsDNA HS Assay Kit (Life Technologies, Cat. Nos. Q32851 or Q32854), resulting in an output of at least 6 ng/µl. Libraries were diluted to 1.5 ng/µl; 1 µl of the dilution was analyzed with an Agilent Bioanalyzer and High Sensitivity DNA Kit (Agilent Technologies, Cat. No. 5067-4626). The Bioanalyzer electropherogram showed a broad distribution from ~175–900 bp with a peak in the 275–375 bp range.

## Quality Control Data for the DNA SMART Custom Read2 Seq Primer:

Each oligo lot was PAGE-purified and verified by ESI analysis to contain a major peak with a measured molecular weight within 10 Da of the predicted molecular weight.

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

## DNA SMART™ ChIP-Seq Components

### CATALOG NOS.

634868 & 634872

### 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 270

This Product is protected by one or more patents from the family consisting of: US9410173, DE602013058951.8, US11001882, EP2912197, FR2912197, UK2912197, JP6338221 and any corresponding patents, divisionals, continuations, patent applications and foreign filings sharing common priority with the same family.

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