

SMART-Seq® Stranded Kit

| Catalog Nos. | Amount |
|--------------|---------|
| 634442 | 12 rxns |
| 634443 | 48 rxns |
| 634444 | 96 rxns |

Description

The SMART-Seq Stranded Kit is used to generate strand-specific RNA-seq libraries for Illumina® sequencing from 1–1,000 sorted cells or 10 pg–10 ng of purified total RNA. This kit incorporates Takara Bio's SMART® (Switching Mechanism at the 5' end of RNA Template) technology and includes refinements to the SMARTer® method for stranded RNA-seq that simplify the library preparation workflow and improve sequencing performance. In addition, contrary to the SMART-Seq v4 Ultra® Low Input RNA Kit for Sequencing and SMART-Seq HT Kit, reverse transcription is initiated using random priming instead of oligo(dT) priming, thus capturing the full transcriptome instead of only the polyadenylated fraction. The SMART-Seq Stranded Kit was specifically designed to deliver highly sensitive and reproducible data from single cells while keeping the workflow short and user friendly. The kit does not require additional rRNA removal methods or kits and produces sequencing libraries that retain strand-of-origin information. The integrated removal of cDNAs derived from rRNA—typically present in high abundance following cDNA synthesis from total RNA inputs—makes the workflow extremely sensitive, yielding data that is highly reproducible with low mapping to rRNA.

Package Contents:

634442 (12 rxns):

- SMART-Seq Stranded Kit Components (Cat. No. 634445; Not sold separately) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 12 (Cat. No. 634416; Not sold separately) [>>View Components](#)

634443 (48 rxns):

- SMART-Seq Stranded Kit Components (Cat. No. 634446; Not sold separately) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 48 (Cat. No. 634420; Not sold separately) [>>View Components](#)

634444 (96 rxns):

- SMART-Seq Stranded Kit Components (Cat. No. 634447; Not sold separately) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 96 (Cat. No. 634421; Not sold separately) [>>View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

Takara Bio USA, Inc.

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Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- SMART-Seq Stranded Kit User Manual
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This document has been reviewed and approved by the Quality Department.