

## SMARTer® Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian

Catalog Nos.	Amount
634411	12 rxns
634412	48 rxns
634413	96 rxns
634414	192 rxns

### Description

The SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian is used to generate strand-specific RNA-seq libraries for Illumina® sequencing from 250 pg–10 ng inputs of purified total RNA. This kit incorporates Takara Bio's proprietary 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. This method was developed to work with either high- or low-quality total RNA, 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.

The new library design featured in the SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian improves sequencing performance compared to the original SMARTer Stranded Total RNA-Seq Kit - Pico Input Mammalian, particularly for NextSeq® and MiniSeq™ instruments carrying the two-channel SBS technology. These kits include the Indexing Primer Set HT for Illumina v2; for your convenience, we also offer the SMARTer Stranded Total RNA-Seq Kit v2 – Pico Input Mammalian Components (Cat. No. 634418 and 634419) without indexing primers. For these kits, we recommend our SMARTer RNA Unique Dual Index Kits (Cat. Nos. 634451, 634452, and 634457).

### Package Contents:

#### 634411 (12 rxns):

- SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian Components (Cat. No. 634415; Not sold separately) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 12 (Cat. No. 634416; Not sold separately) [>>View Components](#)

#### 634412 (48 rxns):

- SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian Components (Cat. No. 634417; Not sold separately) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 48 (Cat. No. 634420; Not sold separately) [>>View Components](#)

#### 634413 (96 rxns):

- SMARTer Stranded Total RNA-Seq Kit v2 Pico Input Mammalian Components (Cat. No. 634418) [>>View Components](#)
- Indexing Primer Set HT for Illumina v2 - 96 (Cat. No. 634421; Not sold separately) [>>View Components](#)

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# Product Components List

Cat. Nos. 634411, 634412, 634413, 634414

SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian

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## 634414 (192 rxns):

- SMARTer Stranded Total RNA-Seq Kit v2 Pico Input Mammalian Components (Cat. No. 634419) [>>View Components](#)
- Two of Indexing Primer Set HT for Illumina v2 - 96 (Cat. No. 634421; Not sold separately) [>>View Componentss](#)

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

## 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:

- SMARTer Stranded Total RNA-Seq Kit v2 - Pico Input Mammalian User Manual
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## 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.

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This document has been reviewed and approved by the Quality Department.