

# Product Components List

## SMART-Seq® Mouse TCR (with UMIs)

Catalog No.	Amount
634814	4 x 96 rxns

### Description

SMART-Seq Mouse TCR (with UMIs) enables users to analyze mouse T-cell receptor (TCR) diversity using as input purified high-integrity RNA (RIN>7) or whole intact cells. The full kit is designed to work with a range of RNA input amounts depending on the sample type and has been shown to generate high-quality libraries from 1 ng–1 µg of total RNA obtained from mouse spleen or T cells, 10 ng–1 µg of total RNA obtained from mouse whole blood, bone marrow, or thymus, or from 100–10,000 purified mouse T cells. The kit can be used to generate data for both alpha- and beta-chain diversity, either in the same experiment or separately. It leverages SMART® (Switching Mechanism at 5' end of RNA Template) technology and employs a 5' RACE-like approach to capture complete V(D)J variable regions of TCR transcripts.

The workflow incorporates unique molecular identifiers (UMIs), providing greater accuracy for clonotype identification and counting. Using the Unique Dual Index kits (Cat. Nos. 634752–634756, sold separately), the protocol can generate up to 384 multiplexed libraries that are ready for sequencing on any Illumina® platform.

### Package Contents

- 4 x SMART-Seq Mouse TCR (with UMIs) (Cat. No. 634816) >> [View Components](#)

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](https://www.takarabio.com/manuals)

The following documents apply to this product:

- SMART-Seq Mouse TCR (with UMIs) User Manual

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### Notice to Purchaser

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

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