

SMARTer® Human TCR a/b Profiling Kit v2

Catalog Nos.	Amount
634478	12 rxns
634479	48 rxns

Description

The SMARTer Human TCR a/b Profiling Kit v2 enables users to analyze T-cell receptor (TCR) diversity from RNA samples or purified cell. This 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 as little as 10 ng to 1 µg of total RNA obtained from peripheral blood leukocytes, 1 ng to 100 ng of total RNA obtained from T cells, or from 1,000 to 10,000 purified T cells. As the name suggests, the kit can be used to generate data for both alpha- and beta-chain diversity, either in the same experiment or separately.

This kit leverages SMART® technology and employs a 5' RACE-like approach to capture complete V(D)J variable regions of TCR transcripts. Included in the kit are UDI primers that incorporate Illumina®-specific adaptor sequences during cDNA amplification. The protocol generates indexed libraries that are ready for sequencing on any Illumina platforms.

Package Contents:

634478 (12 rxns):

- SMARTer Human TCR a/b Profiling Kit v2 Components (Cat. No. 634480; Not sold separately) [>>View Components](#)
- SMARTer RNA Unique Dual Index Kit – 24U (Cat. No. 634451) [>>View Components](#)

634479 (48 rxns):

- SMARTer Human TCR a/b Profiling Kit v2 Components (Cat. No. 634481; Not sold separately) [>>View Components](#)
- SMARTer RNA Unique Dual Index Kit – 24U (Cat. No. 634451) [>>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

The following documents apply to this product:

SMARTer Human TCR a/b Profiling Kit v2 User Manual

Takara Bio USA, Inc.

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