

## SMARTer® Human TCR a/b Profiling Kit

Catalog Nos.	Amount
635014	12 rxns
635015	48 rxns
635016	96 rxns

### Description

The SMARTer Human TCR a/b Profiling Kit enables users to analyze T-cell receptor (TCR) diversity from input RNA samples. 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 3 µg of total RNA obtained from peripheral blood leukocytes, or from 50 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 primers that incorporate Illumina®-specific adaptor sequences during cDNA amplification. The protocol generates indexed libraries that are ready for sequencing on Illumina platforms.

### Package Contents:

#### 635014 (12 rxns):

- SMARTer Human TCR a/b Profiling Kit Components (Cat. No. 635017; Not sold separately) [>>View Components](#)
- TCR a/b Human Indexing Primer Set HT for Illumina - 12 (Cat. No. 635020; Not sold separately) [>>View Components](#)
- SeqAmp™ DNA Polymerase (Cat. No. 638504) [>>View Components](#)

#### 635015 (48 rxns):

- SMARTer Human TCR a/b Profiling Kit Components (Cat. No. 635018; Not sold separately) [>>View Components](#)
- TCR a/b Human Indexing Primer Set HT for Illumina - 48 (Cat. No. 635021; Not sold separately) [>>View Components](#)
- SeqAmp DNA Polymerase (Cat. No. 638509) [>>View Components](#)

#### 635016 (96 rxns):

- SMARTer Human TCR a/b Profiling Kit Components (Cat. No. 635019; Not sold separately) [>>View Components](#)
- TCR a/b Human Indexing Primer Set HT for Illumina - 96 (Cat. No. 635022; Not sold separately) [>>View Components](#)
- 2 x SeqAmp DNA Polymerase (Cat. No. 638509) [>>View Components](#)

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

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#### Clontech Laboratories, Inc.

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# Product Components List

Cat. Nos. 635014, 635015, 635016

SMARTer® Human TCR a/b Profiling Kit

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## Product Documents

Documents for Clontech® products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals)

The following documents apply to this product:

- SMARTer Human TCR a/b Profiling Kit User Manual
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This document has been reviewed and approved by the Clontech Quality Assurance Department.