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.
Product Components List
SMARTer® Human TCR a/b Profiling Kit

Product Documents
Documents for Clontech® products are available for download at www.clontech.com/manuals
The following documents apply to this product:

- SMARTer Human TCR a/b Profiling Kit User Manual

Notice to Purchaser
Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Clontech Laboratories, Inc.

Your use of this product is also subject to compliance with any applicable licensing requirements described on the product’s web page at http://www.clontech.com. It is your responsibility to review, understand and adhere to any restrictions imposed by such statements.

Illumina® is a registered trademark of Illumina, Inc.

Clontech®, the Clontech logo, SeqAmp, SMART®, and SMARTer® are trademarks of Clontech Laboratories, Inc. All other trademarks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions. Clontech is a Takara Bio Company. ©2016 Clontech Laboratories, Inc.

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