

SMARTer® Mouse TCR a/b Profiling Kit

Catalog Nos.	Amount
634402	12 rxns
634403	48 rxns
634404	96 rxns

Description

The SMARTer Mouse TCR a/b Profiling Kit enables users to analyze T-cell receptor (TCR) diversity from total RNA samples or whole cells. 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 500 ng of total RNA obtained from spleen, thymus, PBMCs, 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 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

634402 (12 rxns):

- SMARTer Mouse TCR a/b Profiling Kit Components (Cat. No. 634405; not sold separately) [>>View Components](#)
- TCR a/b Mouse Indexing Primer Set HT for Illumina - 12 (Cat. No. 634408; not sold separately) [>>View Components](#)

634403 (48 rxns):

- SMARTer Mouse TCR a/b Profiling Kit Components (Cat. No. 634406; not sold separately) [>>View Components](#)
- TCR a/b Mouse Indexing Primer Set HT for Illumina - 48 (Cat. No. 634409; not sold separately) [>>View Components](#)

634404 (96 rxns):

- SMARTer Mouse TCR a/b Profiling Kit Components (Cat. No. 634407; not sold separately) [>>View Components](#)
- TCR a/b Mouse Indexing Primer Set HT for Illumina - 96 (Cat. No. 634410; not sold separately) [>>View Components](#)
- PrimeSTAR® GXL SP DNA Polymerase (Cat. No. RF220Q) [>>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 www.clontech.com/manuals

The following documents apply to this product:

- SMARTer Mouse TCR a/b Profiling Kit User Manual

Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: tech@clontech.com

United States/Canada 800.662.2566 (102816)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
--------------------------------------------------	---------------------------------	------------------------------	-----------------------------

Product Components List

Cat. Nos. 634402, 634403 & 634404

SMARTer Mouse TCR a/b Profiling Kit

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 Takara Bio USA, 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.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by such statements.

©2016 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions. Additional product, intellectual property, and restricted use information is available at <http://www.takarabio.com>.

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