**SMARTer® Mouse TCR a/b Profiling Kit**

**Catalog Nos.**

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<th>Catalog No.</th>
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<td>634402</td>
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**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)
  - TCR a/b Mouse Indexing Primer Set HT for Illumina - 12 (Cat. No. 634408; not sold separately)

**634403 (48 rxns):**
- SMARTer Mouse TCR a/b Profiling Kit Components (Cat. No. 634406; not sold separately)
  - TCR a/b Mouse Indexing Primer Set HT for Illumina - 48 (Cat. No. 634409; not sold separately)

**634404 (96 rxns):**
- SMARTer Mouse TCR a/b Profiling Kit Components (Cat. No. 634407; not sold separately)
  - TCR a/b Mouse Indexing Primer Set HT for Illumina - 96 (Cat. No. 634410; not sold separately)
  - PrimeSTAR® GXL SP DNA Polymerase (Cat. No. RF220Q)

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](http://www.clontech.com/manuals)

The following documents apply to this product:

- SMARTer Mouse TCR a/b Profiling Kit User Manual
Notice to Purchaser

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