



TCRseq Well Plate Kit, Human

PRODUCT INSERT

Purpose

The TCRseq Well Plate Kit, Human (750-01001) consists of reagents for processing up to 192 single human T cells in two 96-well plates. The kit is used for off-chip amplification and recovery of V(D)J regions of the TCR alpha and beta chains from single human T cells in a well plate after export from a Beacon[®] or Lightning[®] optofluidic system. The output of this kit is amplified V(D)J regions of the TCR alpha and beta chains, which are ready to index and sequence using the Illumina MiSeq[®] platform. The kit is compatible with all Opto[®] T Cell Profiling assays.

Kit Contents

Table 1 – Box 1 (750-08303) components to be stored at -20°C

Component	Unit Quantity	Volume/ Unit	Uses/ Unit	Storage Conditions	Part Number
dNTP Mix (orange cap)	1 EA	200 µL			
PCR Enzyme K (green cap)	5 EA	1 mL			
RNase Inhibitor (green cap)	1 EA	100 µL			
RT Additive (orange cap)	1 EA	200 µL			
RT Buffer (white cap)	1 EA	400 µL	192 wells	-20°C	750-01001
RT Enzyme (green cap)	1 EA	20 µL			
TCR Amp Primer Mix (blue cap)	1 EA	170 µL			
TCRseq Primer 3 (blue cap)	1 EA	140 µL			

FOR RESEARCH USE ONLY. Not for use in diagnostic procedures.

Kit Contents (continued)

Table 2: Box 2 (750-08304) components to be stored at -80°C

Component	Quantity	Volume/ Unit	Uses/ Unit	Storage Conditions	Part Number
TCRseq Primer 1 (blue cap)	1 EA	310 µL	192 wells	-80°C	750-01001
TCRseq Primer 2 (blue cap)	1 EA	200 µL			

Instructions for Use

Instructions for use and handling can be found in the following documentation, which can be located on the Support Portal:

- *cDNA Recovery and TCR Amplification for Beacon[®] T Cell Profiling Exports* (MAN-08044)
- *cDNA Recovery and TCR Amplification for Lightning[®] T Cell Profiling Exports* (MAN-08045)
- *Opto[®] T Cell Profiling Workflows User Manual for Beacon[®] Optofluidic Systems* (MAN-08208)
- *Opto[®] T Cell Profiling Workflows User Manual for the Lightning[®] Optofluidic System* (MAN-08209)

Safety

Use standard laboratory safety protocols and always wear appropriate personal protective equipment (PPE). Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, please email support@brukercellularanalysis.com.

Legal

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Bruker Cellular Analysis
brukercellularanalysis.com
+1 (510) 858-2855
sales@brukercellularanalysis.com

Technical Support
support.brukercellularanalysis.com
+1 (888) 254-5595 ext. 4
support@brukercellularanalysis.com

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