

## Product Analysis Certificate

CellTracker™ 13K Lentiviral Barcode Library (Packaged)  
Cat.# BC13K-V



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### CellTracker™ 13K Lentiviral Barcode Library

**Shipment Contents:** CellTracker™ 13K Lentiviral Barcode Library (Packaged)  
Store at -80°C

**Description:**

Cellecta's CellTracker™ 13K Lentiviral Barcode Library enables the tracking of individual clones derived from a population of cells. The library contains ~13,000 Lentiviral constructs with different barcode sequences in a single tube. When a cell population is transduced with this barcode library, the barcodes integrate into the genomic DNA of the cells. The result is a founder population where almost every cell has a different DNA-sequenceable barcode integrated into its DNA. Since the barcode is stably integrated, it is passed onto any cell progeny when genomic DNA is replicated. This feature enables identification of all the progeny derived from each individual cell.

The CellTracker Library was constructed in a third-generation lentiviral vector that expresses TagRFP (Evrogen) and Puro resistance gene under a human ubiquitin C promoter. Specially-designed, optimized barcodes facilitate Next-Gen Sequencing (NGS) data analysis and barcode identification. Using the Illumina NextSeq, HiSeq, or GAIIX NGS platform, barcode sequences are identified and converted to lists with enumerated data.

The titer of packaged libraries provided by Cellecta is functionally determined by transduction of 293T cells and FACS of RFP-positive transduced cells.

**Biosafety Level:** BSL-2

**Storage:** -80°C

**Shelf Life:** 1 year from date of receipt

**Shipping Conditions:** Dry Ice

**Product Information (Cellecta Website):**

User Manual: <https://www.cellecta.com/resources/product-manuals-and-certificates/>  
Vector Info (Sequence, cassette, etc): Please contact us at [tech@cellecta.com](mailto:tech@cellecta.com).

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### Contents:

Catalog #	Description
BC13K-V	<b>CellTracker™ 13K Lentiviral Barcode Library (packaged)</b> in pRS116-U6-UbiC-TagRFP-2A-Puro Packaged, $>1 \times 10^8$ TU: <b><math>1.13 \times 10^8</math> TU</b> , $2.43 \times 10^8$ TU/ml (465 $\mu$ l total: 50 $\mu$ l $\times$ 9 vials, 5 $\mu$ l $\times$ 3 vials) Lot# 17020201; Store at $-80^\circ\text{C}$

## Quality Control

### Individual Clone Sequencing Data

	Library:	CellTracker™ 13K
Plasmid Library Lot #:		12082103
Library Complexity (number of independent clones):		$>65 \times 10^6$
# of random clones picked:		24
Mutation / Deletion / Insertion Rate:		$\sim 0.2\%$ ( $\sim 2$ mutations in 1,000 bases)

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"This product or service (based upon the Lentiviral Expression System) is sublicensed from Life Technologies Corporation under U.S. Patent Nos. 5,686,279; 5,834,256; 5,858,740; 5,994,136; 6,013,516; 6,051,427; 6,165,782; 6,218,187; 6,428,953; 6,924,144; 7,083,981 and 7,250,299 and corresponding patents and applications in other countries for internal research purposes only. Use of this technology for gene therapy applications or bioprocessing other than for nonhuman research use requires a license from GBP IP, LLC. Please contact GBP IP, LLC 537 Steamboat Road, Suite 200, Greenwich, CT 06830. Use of this technology to make or sell products or offer services for consideration in the research market requires a license from Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008."

#### Evrogen IP JSC End-User Label License for the use of lentiviral shRNA constructs comprising TagRFP-encoded gene:

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