

Product Analysis Certificate

CellTracker™ 13K Lentiviral Barcode Library (Plasmid)
Cat.# BC13K-P



CellTracker™ 13K Lentiviral Barcode Library

Shipment Contents: CellTracker™ 13K Lentiviral Barcode Library (Plasmid)
Store at -20°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 library can be packaged into VSV-G pseudotyped viral particles using most commercially-available second or third-generation packaging mixes or Cellecta's second-generation psPAX2/pMD2.G packaging plasmid mix (Ready-to-use Packaging Plasmid Mix, Cat.# CPCP-K2A, 250 µg).

Biosafety Level: BSL-2

Storage: -20°C

Shelf Life: 2 years from date of receipt

Shipping Conditions: Dry Ice, Blue Ice, or Room Temperature

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.

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Contents:

Catalog #	Description
BC13K-P	CellTracker™ 13K Lentiviral Barcode Library (plasmid) in pRS116-U6-UbiC-TagRFP-2A-Puro Plasmid, >200 µg: 1.0 µg/µl, 200 µl Lot# 12082103; Store at -20°C

Quality Control

Individual Clone Sequencing Data

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

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Life Technologies Corporation End-User Label License for the use of Lentiviral Expression System:

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

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