

Product Analysis Certificate

Product: CloneTracker™ 50M Lentiviral Barcode Library (Packaged)
Cat.#: BC13X13-V



CloneTracker™ 50M Lentiviral Barcode Library

Shipment Contents: CloneTracker™ 50M Lentiviral Barcode Library (Packaged)
(formerly CellTracker)
Store at -80°C

Description:

Cellecta's CloneTracker™ 50M Lentiviral Barcode Library enables the tracking of individual clones derived from a population of cells. The library contains several million 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 CloneTracker 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.

Note: *The CloneTracker 50M Barcode Library was previously named the CellTracker 50M Barcode Library and the CellTracker 13K×13K Lentiviral Barcode Library.*

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/manuals/celltracker-50m-lentiviral-barcode-library/>
Vector Info (Sequence, cassette, etc): <https://www.cellecta.com/clonetracker-barcode-library>

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Contents:

Catalog #	Description
BC13X13-V (was BC13X13-30M-V)	CloneTracker™ 50M Lentiviral Barcode Library (packaged) 13K × 13K Clonal Barcodes in pRSI16-U6-bc-UbiC-TagRFP-2A-Puro <u>Packaged, >1 × 10⁸ TU:</u> 1.13 × 10⁸ TU , 5.52 × 10 ⁸ TU/ml (205 µl total: 50 µl × 4 vials, 5 µl × 1 vial) Lot# 181101003; <i>Store at -80°C</i>

Quality Control

Individual Clone Sequencing Data

	Library:	CloneTracker™ 50M
Plasmid Library Lot #:		12082901
Library Complexity (number of independent clones):		>50 × 10 ⁶
# of random clones picked:		24
Mutation / Deletion / Insertion Rate:		~0.2% (~2 mutations in 1,000 bases)
Comments:		Region analyzed is total of 43 barcode inserts

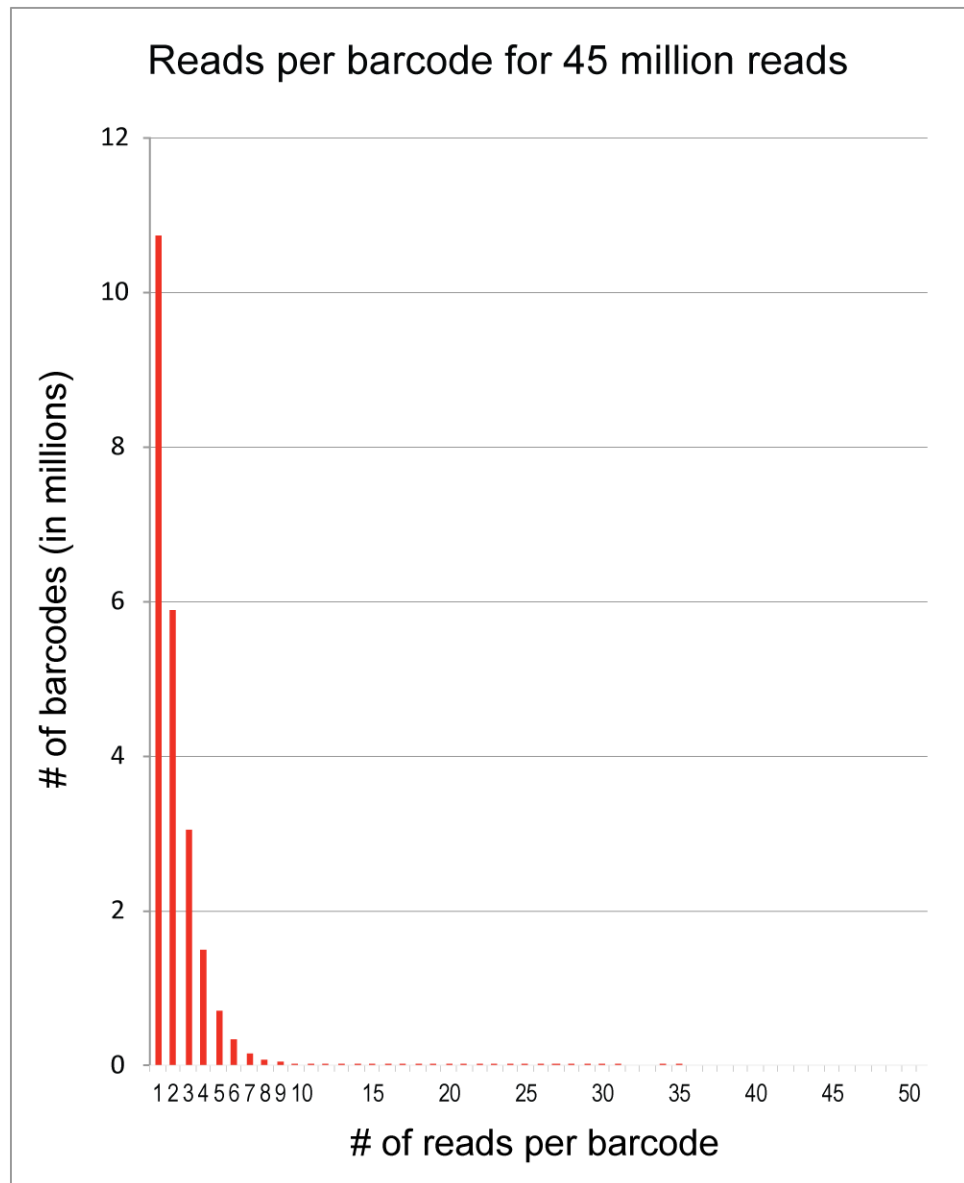
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Next-Gen Sequencing (NGS) Data (45 million reads)

reads/ barcode	# of barcodes
1	10728577
2	5893768
3	3034998
4	1485298
5	706761
6	332240
7	154026
8	72099
9	33543
10	15898
11	7499
12	3374
13	1724
14	859
15	417
16	229
17	146
18	91
19	47
20	38
21	29
22	17
23	17
24	8
25	16
26	8
27	14
28	6
29	5
30	6
31	3
32	1
33	1
34	2
35	3
36	0
37	1
38	1
39	0
40	0
41	1
42	1
43	0
44	0
45	0
46	1
47	0
48	0
49	0
50	0



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