

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only (Unique by Size, Sequence, and Individual Amplification)

Catalog #:	BC4PPO-V
Kit Lot #:	180209014
Number of Assays:	Amplification and sequencing of up to 20 genomic DNA samples 4 packaged barcode constructs
Shipment Contents:	PCR/Transduction Reagents (BOX 1 of 2) Lot# 180110914 — Store at -20°C CellTracker™ Barcode-Plus Constructs, Puro Only (BOX 2 of 2) Lot# 180209001 — Store at -80°C

Description:

The CellTracker 4-Barcode-Plus Cell Labeling Kit, Puro Only (Cat.# BC4PPO-V) provides 4 unique packaged barcode constructs, each of which differ in both size and sequence. The barcode constructs contain only a puromycin-resistance selection marker and no fluorescent marker (for TagRFP-Puro kit, please see Cat.# BC4P-V). Barcode-Plus constructs are not compatible with and will not be read with CellTracker™ 50M Barcode Library barcodes during library amplification and NGS.

The titer of packaged constructs provided by Cellecta is functionally determined by transduction of 293T cells and either antibiotic selection assay or by PCR titering of integrated viral DNA.

Biosafety Level:	BSL-2
Storage:	PCR/Transduction Reagents (BOX 1 of 2): -20°C CellTracker™ Barcode-Plus Constructs, Puro Only (BOX 2 of 2): -80°C
Shelf Life:	1 year from date of receipt
Shipping Conditions:	Dry Ice

Product Information (Cellecta Website):

User Manual

Web: <https://www.cellecta.com/manuals/celltracker-barcode-cell-labeling-kits/>

PDF: <https://www.cellecta.com/wp-content/uploads/Cellecta-Manual-CellTracker-Barcode-Cell-Labeling-Kits.pdf>

Quality Control

Each lot of the CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only is quality tested for functionality by following the protocols in the User Manual.

Contamination-Free: Each lot of 4-Barcode-Plus Cell Labeling Kit, Puro Only is tested for bacterial contamination.

Mycoplasma-Free: Each lot of 4-Barcode-Plus Cell Labeling Kit, Puro Only is certified to be mycoplasma-free, as determined by RT-PCR.

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



Kit Contents:

PCR/Transduction Reagents (BOX 1 of 2) — Store at -20°C

Box 1 Component	Description	Concentration	Volume
Taq DNA Polymerase	Thermostable DNA Polymerase	50X	50 µl
Taq DNA Polymerase Buffer	Reaction Buffer for PCR	10X	500 µl
dNTP Mix	Mix of dATP, dGTP, dCTP and dTTP, 10 mM each	50X	50 µl
PCR-Grade Water	Water for Reaction Mixes	NA	2 ml
First PCR Primer Mix	Mix of Forward and Reverse PCR Primers for First PCR (2.5 uM each)	10X	120 µl
Second PCR Primer Mix	Mix of Forward and Reverse PCR Primers for Second PCR (2.5 uM each)	10X	1,500 µl
Barcode 1 PCR Primer Mix	Mix of Forward and Reverse PCR Primers specific for Barcode 1 (2.5 uM each)	10X	120 µl
Barcode 2 PCR Primer Mix	Mix of Forward and Reverse PCR Primers specific for Barcode 2 (2.5 uM each)	10X	120 µl
Barcode 3 PCR Primer Mix	Mix of Forward and Reverse PCR Primers specific for Barcode 3 (2.5 uM each)	10X	120 µl
Barcode 4 PCR Primer Mix	Mix of Forward and Reverse PCR Primers specific for Barcode 4 (2.5 uM each)	10X	120 µl
Forward Sequencing Primer	Forward Sequencing Primer (10 uM)	20X	25 µl
Positive Control Template DNA	Positive Control template--mix of 4 genomic DNAs (1:1:1:1 ratio) each labeled with one of the 4 Barcodes (0.2 µg/µl)	10X	25 µl

CellTracker™ Barcode-Plus Constructs, Puro Only (BOX 2 of 2) — Store at -80°C

Box 2 Component (Part #)	Description	Quantity	Vials
BC4PPO-BCP01V	CellTracker™ Barcode-Plus Construct, Puro Only #1	>1 x 10 ⁷ TU	1
BC4PPO-BCP02V	CellTracker™ Barcode-Plus Construct, Puro Only #2	>1 x 10 ⁷ TU	1
BC4PPO-BCP03V	CellTracker™ Barcode-Plus Construct, Puro Only #3	>1 x 10 ⁷ TU	1
BC4PPO-BCP04V	CellTracker™ Barcode-Plus Construct, Puro Only #4	>1 x 10 ⁷ TU	1

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



Barcode Construct Description:

#	Part # (Construct ID)	Description
1	BC4PPO-BCP01V	<p>CellTracker™ Barcode-Plus Construct, Puro Only #1 BCP01 in pRSIUP-U6-xx-UbiC-Puro (packaged)</p> <p><u>Packaged, >1 x 10⁷ TU</u> 3.34 × 10⁷ TU, 1.86 × 10⁷ TU/ml (1800 µl total: 1800 µl × 1 vials) Lot# 180131009; Store at -80°C</p>
	Barcode Insert Sequence:	<p>ACGACAAGCATCTGCCATCCAAGCAGCACCGACCAGCAGAGATGCACACAACGTACCACATGCATGCATGTGC AGTTGTTTTTTTACACACTGACCAACCATGTGGTACACCAGTGTACACTGTGTGCTGGTGGTGCCTCGTCTCG TATGGACTGGTGTCTGT</p>
	Barcode-Specific Primers:	<p>Barcode 1 Fwd PCR Primer: 5'-ACGACAAGCATCTGCCATCCA-3' Barcode 1 Rev PCR Primer: 5'-ACACGACACCAGTCCATACGAGA-3' Amplicon Size: 164 bp</p>
	Universal Primer Sites: (2 nd Round PCR Primers)	<p>2nd Fwd PCR Primer: 5'-AGCAGCACCGACCAGCAGAGA-3' 2nd Rev PCR Primer: 5'-CGAGCACCGACCAGCACACA-3' Amplicon Size: 121 bp</p>
	Sequencing QC:	<p>NNNNTNTTGGGTAGTTTGCAGTTTTAAAATTATGTTTTAAAATGGACTATCATATGCTTACCGTAACTTGAAA GTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGACGACAAGCATCTGCCATCCAAG CAGCACCGACCAGCAGAGATGCACACAACGTACCACATGCATGCATGTGCAGTTGTTTTTTTACACACTGACC AACCATGTGGTACACCAGTGTACACTGTGTGCTGGTCCGGTCTCGTCTCGTATGGACTGGTGTCTGTCTCGG ACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGGGGATTGGGGGGTACAGTGCAGGGGAAAGAAT AGTAGACATAATAGCAACNGACATACAA</p>
	Sequencing Primer:	5'-CAAGGCTGTTAGAGAGATAATTGGAA-3' (Fwd Seq Primer)

#	Part # (Construct ID)	Description
2	BC4PPO-BCP02V	<p>CellTracker™ Barcode-Plus Construct, Puro Only #2 BCP02 in pRSIUP-U6-xx-UbiC-Puro (packaged)</p> <p><u>Packaged, >1 x 10⁷ TU</u> 3.43 × 10⁷ TU, 1.91 × 10⁷ TU/ml (1800 µl total: 1800 µl × 1 vials) Lot# 180131010; Store at -80°C</p>
	Barcode Insert Sequence:	<p>TCTGTCCGTCACCGTGACACAGCAGCACCGACCAGCAGAGAAACCAACCAGTGCATGCATGCATGTGCA GTTGTTTTTTTTACAGTCAACACGTACGTGTACACACTGACCAACCATGCACCAACACACACCGTTGTGTG CTGGTCCGGTCTCGTACGACTCTGCAACGAGATCCTCT</p>
	Barcode-Specific Primers:	<p>Barcode 2 Fwd PCR Primer: 5'-ACCGTCTGTCCGTCACCGT-3' Barcode 2 Rev PCR Primer: 5'-AGAGGATCTCGTTGCAGAGTCGT-3' Amplicon Size: 188 bp</p>
	Universal Primer Sites: (2 nd Round PCR Primers)	<p>2nd Fwd PCR Primer: 5'-AGCAGCACCGACCAGCAGAGA-3' 2nd Rev PCR Primer: 5'-CGAGCACCGACCAGCACACA-3' Amplicon Size: 141 bp</p>
	Sequencing QC:	<p>NNNTTCTTGNGTAGTTTGCAGTTTTAAAATTATGTTTTAAAATGGACTATCATATGCTTACCGTAACTTGAAA GTATTTTCGATTTCTTGGCTTTATATATCTTGTGGAAAGGACGAAACACCGTCTGTCCGTCACCGTGACACAGC AGCACCGACCAGCAGAGAAACCAACCACAGTGCATGCATGCATGTGCAGTTGTTTTTTTACAGTCAACAC GTACGTGTACACACTGACCAACCATGCACCAACACACAGTGTGTGTGCTGGTCCGGTCTCGTACGACTCT GCAACGAGATCCTCTTTCCGACTGTAGAACTCTGAACCTCGAGCAATTTAAAAGAAAAGGGGGGATTGGGGGG TACAGTGCAGGGGAAAGAATAGTAGACATAATAGCAACAGACATACAA</p>
	Sequencing Primer:	5'-CAAGGCTGTTAGAGAGATAATTGGAA-3' (Fwd Seq Primer)

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



#	Part # (Construct ID)	Description
3	BC4PPO-BCP03V	<p>CellTracker™ Barcode-Plus Construct, Puro Only #3 BCP03 in pRSIUP-U6-xx-UbiC-Puro (packaged)</p> <p><u>Packaged, >1 x 10⁷ TU</u> 3.01 × 10⁷ TU, 1.67 × 10⁷ TU/ml (1800 µl total: 1800 µl × 1 vials) Lot# 180131011; Store at -80°C</p>
	Barcode Insert Sequence:	<p>ACCCTGATCCAACCACACAGTAGCAGCACCAGCAGAGATGGTCATGGTTCATGGTGGTTCATGCATGTGCAGTTGTTTTTTTGTGTCAGTCAACAACAGTCAACACTGACGTCACATGGTTGACACACTGACCAACCATGTGACTGTGACGTGTGTCATGTGCTGGTTCGGTGCCTGACTGCTGTCTCTGGTCT</p>
	Barcode-Specific Primers:	<p>Barcode 3 Fwd PCR Primer: 5'-GACCCTGATCCAACCACACCA-3' Barcode 3 Rev PCR Primer: 5'-AGACCAAGCAGGACAGCAGTCA-3' Amplicon Size: 205 bp</p>
	Universal Primer Sites: (2 nd Round PCR Primers)	<p>2nd Fwd PCR Primer: 5'-AGCAGCACCCGACCAGCAGAGA-3' 2nd Rev PCR Primer: 5'-CGAGCACCCGACCAGCACACA-3' Amplicon Size: 161 bp</p>
	Sequencing QC:	<p>ANNTCTTGGGTAGTTTGCAGTTTTAAAAATTATGTTTTAAAAATGGACTATCATATGCTTACCGTAACTTGAAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGAAAGGACGAAACACCCGACCTGATCCAACCACACAGTAGCAGCACCCGACCAGCAGAGATGGTCATGGTTCATGGTGGTTCATGCATGTGCAGTTGTTTTTTTGTGTCAGTCAACAACAGTCAACACTGACGTCACATGGTTGACACACTGACCAACCATGTGACTGTGACGTTGTCATGTGCTGGTTCGGTGCCTGACTGCTGTCTCTGGTCTTTCGGACTGTAGAAGTCTGAACCTCGAGCAATTTAAAGAAAAGGGGGGATTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGCANNNNACATACAA</p>
	Sequencing Primer:	5'-CAAGGCTGTTAGAGAGATAATTGGAA-3' (Fwd Seq Primer)

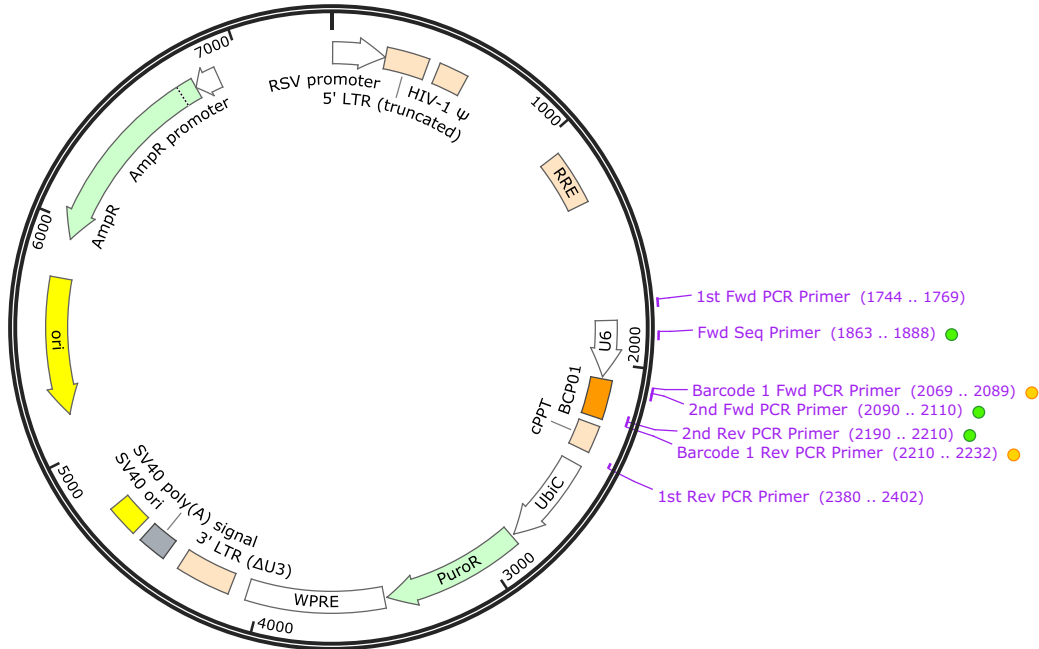
#	Part # (Construct ID)	Description
4	BC4PPO-BCP04V	<p>CellTracker™ Barcode-Plus Construct, Puro Only #4 BCP04 in pRSIUP-U6-xx-UbiC-Puro (packaged)</p> <p><u>Packaged, >1 x 10⁷ TU</u> 2.93 × 10⁷ TU, 1.63 × 10⁷ TU/ml (1800 µl total: 1800 µl × 1 vials) Lot# 180131012; Store at -80°C</p>
	Barcode Insert Sequence:	<p>AGACTTGCAGCTGCAGAGCTGAGCAGCACCAGCAGAGATGGTGTACACACACGTTGTGCATGCATGTGCAGTTGTTTTTTTACACACTGACCAACCATGGTGTCTTGACACGTTGACTGGTGTACAGTTGTGACCAACACACTGCAACTGCAACCAGTTGCATGTGCAGTTGTGTGCTGGTTCGGTGCCTTACCAGTGCCTCTGTCCT</p>
	Barcode-Specific Primers:	<p>Barcode 4 Fwd PCR Primer: 5'-ACCGAGACTTGCAGCTGCAGA-3' Barcode 4 Rev PCR Primer: 5'-AGGACAGAGCAGCACTGGTCA-3' Amplicon Size: 227 bp</p>
	Universal Primer Sites: (2 nd Round PCR Primers)	<p>2nd Fwd PCR Primer: 5'-AGCAGCACCCGACCAGCAGAGA-3' 2nd Rev PCR Primer: 5'-CGAGCACCCGACCAGCACACA-3' Amplicon Size: 181 bp</p>
	Sequencing QC:	<p>ANNTCTTGGGTAGTTTGCAGTTTTAAAAATTATGTTTTAAAAATGGACTATCATATGCTTACCGTAACTTGAAGTATTTTCGATTTCTTGGCTTTATATATCTTGTGAAAGGACGAAACACCCGAGACTTGCAGCTGCAGAGCTGAGCAGCACCCGACCAGCAGAGATGGTGTACACACACGTTGTGCATGCATGTGCAGTTGTTTTTTTACACACTGACCAACCATGGTGTCTTGACACGTTGACTGGTGTACACGTTGTGACCAACACACTGCAACTGCAACCAGTTGCATGTGTCAGTTGTTGTGCTGGTTCGGTGCCTTTCGGACTGTAGAAGTCTGAACCTCGAGCAATTTAAAGAAAAGGGGGGATTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGN NNNNAACATACAA</p>
	Sequencing Primer:	5'-CAAGGCTGTTAGAGAGATAATTGGAA-3' (Fwd Seq Primer)

Product Analysis Certificate

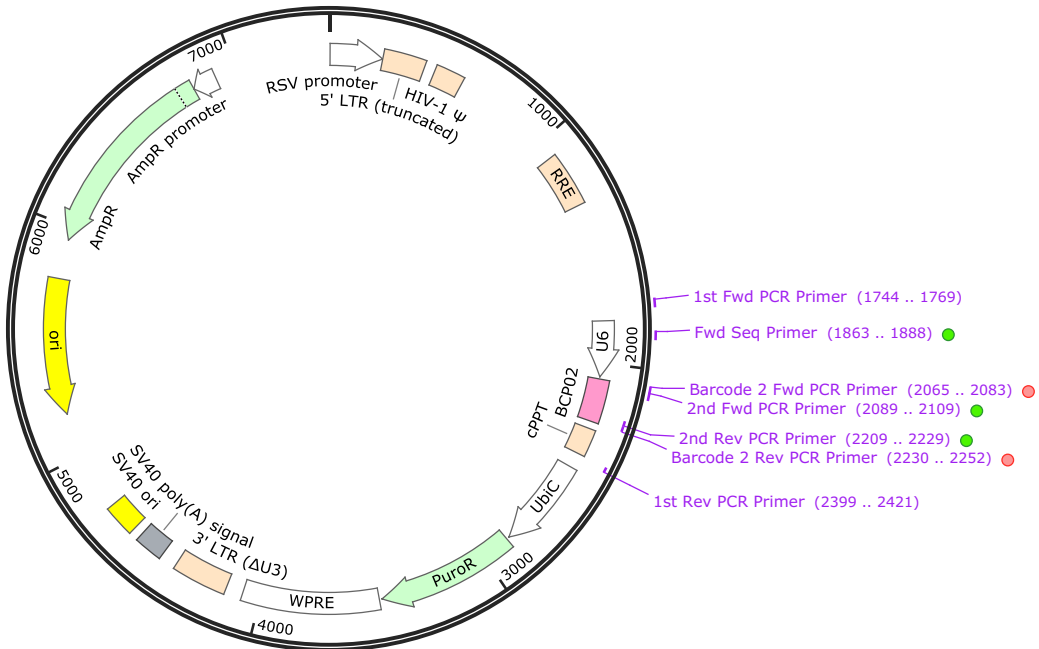
CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
 (Unique by Size, Sequence, and Individual Amplification)



CellTracker™ Barcode-Plus Construct Vector Maps



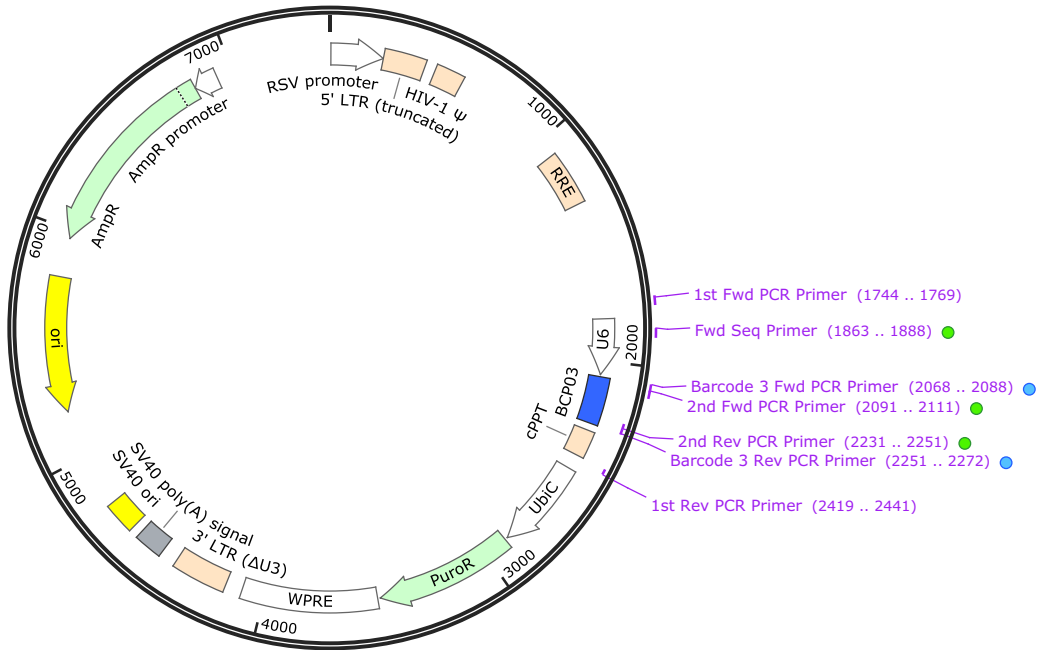
Collecta-Barcode-Plus-pRSIUP-U6-BCP01-UbiC-Puro
7391 bp



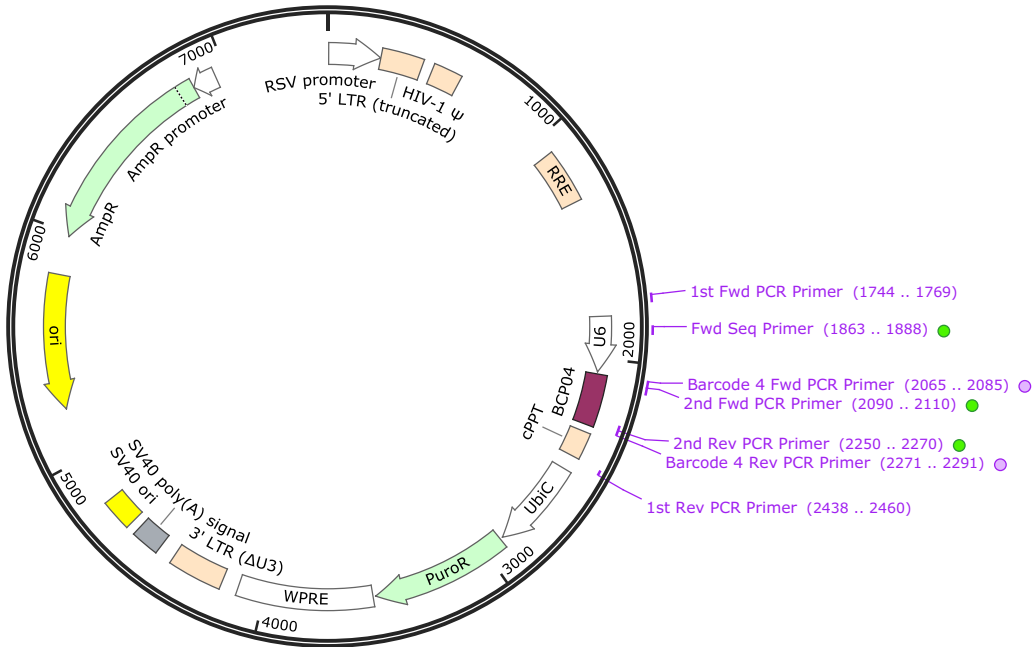
Collecta-Barcode-Plus-pRSIUP-U6-BCP02-UbiC-Puro
7410 bp

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
 (Unique by Size, Sequence, and Individual Amplification)



Collecta-Barcode-Plus-pRSIUP-U6-BCP03-UbiC-Puro
 7430 bp



Collecta-Barcode-Plus-pRSIUP-U6-BCP04-UbiC-Puro
 7449 bp

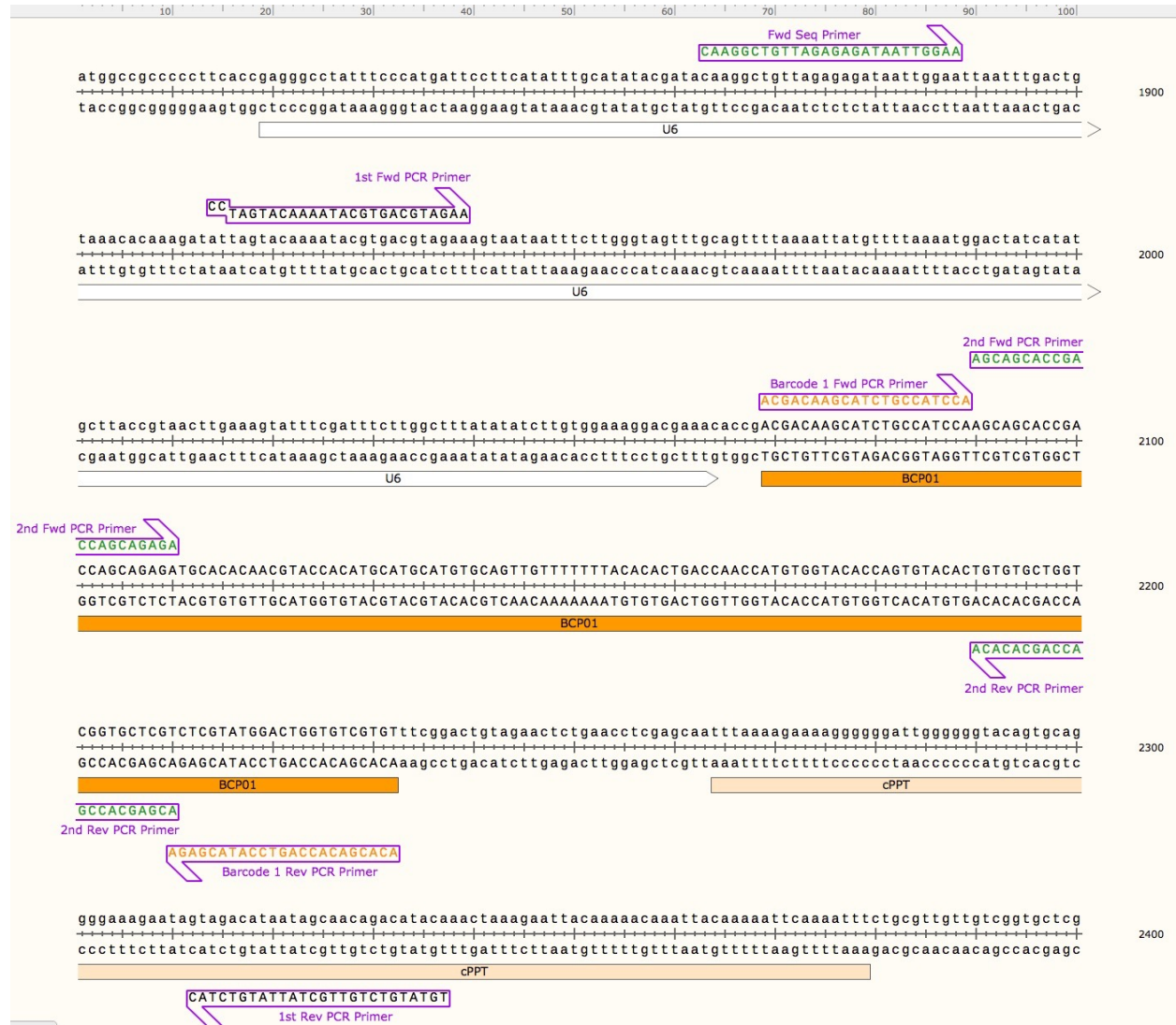
Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



CellTracker™ Barcode-Plus Construct Designs

Barcode-Plus Construct #1 (BCP01)



Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



Barcode-Plus Construct #3 (BCP03)

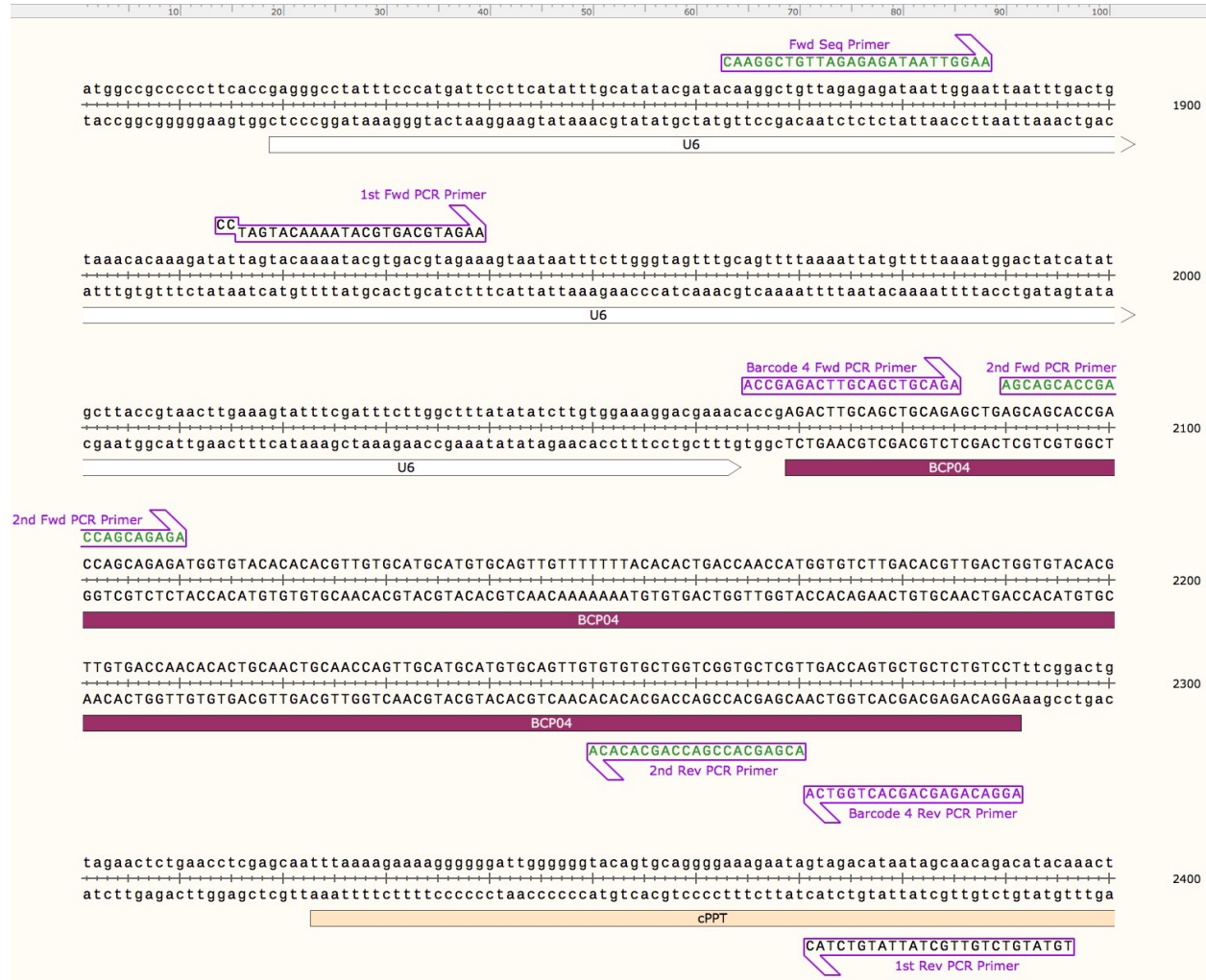


Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



Barcode-Plus Construct #4 (BCP04)



Technical Support

Phone: +1 (650) 938-3910, option 2
Toll-Free: +1 (877) 938-3910, option 2

E-mail:
Technical Support: tech@collecta.com
General Information: info@collecta.com
Sales: sales@collecta.com
Orders: orders@collecta.com

Visit <https://www.collecta.com/celltracker-barcode-products/barcode-cell-labeling-kits/> for more information, or contact your local distributor.

Product Analysis Certificate

CellTracker™ 4-Barcode-Plus Cell Labeling Kit, Puro Only
(Unique by Size, Sequence, and Individual Amplification)



Terms and Conditions

Cellecta, Inc. Limited License

Cellecta grants the end user (the "Recipient") of the 4-Barcode-Plus Cell Labeling Kit, Puro Only (the "Product") a non-transferable, non-exclusive license to use the reagents for internal research use only as described in the enclosed protocols; in particular, research use only excludes and without limitation, resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of Cellecta, Inc. -- separate licenses are available for non-research use or applications. The Product is not to be used for human diagnostics or included/used in any drug intended for human use. Care and attention should be exercised in handling the Product by following appropriate research laboratory practices.

Cellecta's liability is expressly limited to replacement of Product or a refund limited to the actual purchase price. Cellecta's liability does not extend to any damages arising from use or improper use of the Product, or losses associated with the use of additional materials or reagents. This limited warranty is the sole and exclusive warranty. Cellecta does not provide any other warranties of any kind, expressed or implied, including the merchantability or fitness of the Product for a particular purpose. Use of the Product for any use other than described expressly herein may be covered by patents or subject to rights other than those mentioned. Cellecta disclaims any and all responsibility for injury or damage that may be caused by the failure of the Recipient or any other person to use the Product in accordance with the terms and conditions outlined herein.

The Recipient may refuse these licenses by returning the enclosed Product unused. By keeping or using the enclosed Product, you agree to be bound by the terms of these licenses. The laws of the State of California shall govern the interpretation and enforcement of the terms of these Licenses.

Limited Use Licenses

The Recipient acknowledges that Product has been developed by Cellecta based on licenses from Third Parties and agrees with the Terms of Limited Use for the Recipient provided by the Third Parties:

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

"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."

Terms and Conditions are also available online at <https://www.cellecta.com/company/legal-information/terms-and-conditions/>

© 2018 Cellecta, Inc. All Rights Reserved.

Trademarks

CELLECTA is a registered trademark of Cellecta, Inc. CellTracker is a trademark of Cellecta, Inc.