



Service/Sale End

illumina®

Monday, August 28, 2023

## Customer Notification – End of Life of IDT® for Illumina® DNA/RNA UD Indexes Sets A-D, Tagmentation (96 Indexes, 96 Samples) and IDT® for Illumina® RNA UD Indexes Sets A-D, Ligation (96 Indexes, 96 Samples)

Dear Customer,

We are writing to inform you that Illumina will soon be obsoleting IDT for Illumina DNA/RNA UD Indexes Sets A-D, Tagmentation (96 Indexes, 96 Samples) and IDT for Illumina RNA UD Indexes Sets A-D, Ligation (96 Indexes, 96 Samples). We recommend that customers transition to the new alternative replacement products listed in Table 1. The new replacement Illumina UD Index kits have some new UD indexes with improved performance to replace underperforming indexes and will have improved plate labeling features and supply chain redundancy.

We are making this change as part of our ongoing effort to streamline our portfolio to ensure we offer the highest quality products. We will continue to provide full service and support of the IDT for Illumina DNA/RNA UD Indexes Sets A-D, Tagmentation and IDT for Illumina RNA UD Indexes Sets A-D, Ligation until March 30, 2025.

### What This Means For You

We want to supply our customers with critical workflow components and have taken the proactive step of sourcing new versions of these index plates from multiple suppliers. We have done extensive testing to show functional equivalency across the different manufacturing lines, and there will be no difference in labeling or catalog numbers for the index kits produced by different suppliers. Please see the following page for more information on our Supply Chain Continuity efforts:

<https://www.illumina.com/company/news-center/feature-articles/ensuring-supply-continuity.html>

The new kits include the latest version of our UD index plates, with the replacement of several index pairs, to provide Unique Dual Indexes (UDIs) with the lowest 1bp mismatch and highest index read basecalling accuracy and quality scores for optimal performance with the Blue/Green SBS chemistry on NextSeq™ 1000/2000 and NovaSeq™ X platforms. There is no difference in performance of the new UDIs with Illumina Library Prep products for all current applications (see Table 3).

When using the obsolete IDT for Illumina DNA/RNA UD Index Sets A, B, C, and D with NextSeq 1000/2000 and NovaSeq X instruments, we have observed a high percentage of 1 base pair mismatch in certain UD index pairs. The new replacement UD index kits addresses this issue by replacing those index pairs with high 1bp mismatch with the new replacement indexes listed in Table 2A. The increase in 1 base pair mismatch percentage occurs as a result of index Real Time Analysis basecalling in the chemistry, and technology used on NextSeq 1000/2000 and NovaSeq X instruments. This does not impact demultiplexing when using default demultiplex software settings, which allow a 1 bp mismatch. Internal investigations do not show any sample cross-talk or read mis-

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).

PON2023-1440 (Document Number M-AMR-01002)

Page 1 of 10

For Research Use Only. Not for use in diagnostic procedures.



Service/Sale End

illumina®

identification due to this effect or any impact to the library sequencing quality (as denoted by Q30 score).

**Important dates for IDT for Illumina DNA/RNA UD Indexes Sets A-D, Tagmentation and IDT for Illumina RNA UD Indexes Sets A-D, Ligation being made obsolete:**

- Last order date: January 30, 2025
- Last ship date: March 30, 2025

**We're Here to Help**

We recognize the impact that an obsolescence notice may have on your operation. We are committed to providing you with the highest quality service and support during this obsolescence process.

For questions or concerns, please contact Illumina Technical Support at [techsupport@illumina.com](mailto:techsupport@illumina.com). We greatly appreciate your continued business.

Sincerely,

The Customer Notification Team  
Illumina, Inc.  
Website: [www.illumina.com](http://www.illumina.com)

**Technical Support:**  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

**Customer Care:**  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).

PON2023-1440 (Document Number M-AMR-01002)

Page 2 of 10

**For Research Use Only. Not for use in diagnostic procedures.**



Service/Sale End

**Table 1: Products to Be Made Obsolete**

Products to be Obsoleted	Obsoleted Catalog Number	Alternative Products	Alternative Catalog Number
IDT® for Illumina® RNA UD Indexes Set A, Ligation (96 Indexes, 96 Samples)	20040553	Illumina® RNA UD Indexes Set A, Ligation (96 Indexes, 96 Samples)	20091655
IDT® for Illumina® RNA UD Indexes Set B, Ligation (96 Indexes, 96 Samples)	20040554	Illumina® RNA UD Indexes Set B, Ligation (96 Indexes, 96 Samples)	20091657
IDT® for Illumina® RNA UD Indexes Set C, Ligation (96 Indexes, 96 Samples)	20040555	Illumina® RNA UD Indexes Set C, Ligation (96 Indexes, 96 Samples)	20091659
IDT® for Illumina® RNA UD Indexes Set D, Ligation (96 Indexes, 96 Samples)	20040556	Illumina® RNA UD Indexes Set D, Ligation (96 Indexes, 96 Samples)	20091661
IDT® for Illumina® DNA/RNA UD Indexes Set A, Tagmentation (96 Indexes, 96 Samples)	20027213	Illumina® DNA/RNA UD Indexes Set A, Tagmentation (96 Indexes, 96 Samples)	20091654
IDT® for Illumina® DNA/RNA UD Indexes Set B, Tagmentation (96 Indexes, 96 Samples)	20027214	Illumina® DNA/RNA UD Indexes Set B, Tagmentation (96 Indexes, 96 Samples)	20091656
IDT® for Illumina® DNA/RNA UD Indexes Set C, Tagmentation (96 Indexes, 96 Samples)	20042666	Illumina® DNA/RNA UD Indexes Set C, Tagmentation (96 Indexes, 96 Samples)	20091658
IDT® for Illumina® DNA/RNA UD Indexes Set D, Tagmentation (96 Indexes, 96 Samples)	20042667	Illumina® DNA/RNA UD Indexes Set D, Tagmentation (96 Indexes, 96 Samples)	20091660

The IDT-ILMN RNA Index Anchors Box 96 (Catalog 20040899) subcomponent will not change or be updated in the new Illumina® RNA UD Indexes Set A-D, Ligation (96 Indexes, 96 Samples) (Catalogs 20091655, 20091657, 20091659, and 20091661).

**Technical Support:**  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

**Customer Care:**  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).



Service/Sale End



**Table 2A: New v3 Unique Dual Index Pairs in Illumina UD Index Plates**

Plate	Well	New v3 Index ID	i7 Bases in Adapter	i7 Bases in Sample Sheet	i5 Bases for Sample Sheet in Forward Orientation	i5 Bases for Sample Sheet in Reverse Complement Orientation
A	C1	UDP0003V3	TCGGATGTCG	CGACATCCGA	TACGTTTCATT	AATGAACGTA
A	E1	UDP0005V3	TCCTATTGTG	CACAATAGGA	TCCATCCGAG	CTCGGATGGA
A	F6	UDP0046V3	TCCATGTTGC	GCAACATGGA	CTTGCTTAA	TTAAGACAAG
A	E7	UDP0053V3 (UDP0221)	TACCGAACTA	TAGTTCGGTA	CCATGTGTAG	CTACACATGG
A	F7	UDP0054V3 (UDP0222)	GTAGTAATAG	CTATTACTAC	GAGTCTCTCC	GGAGAGACTC
A	G7	UDP0055V3 (UDP0223)	GGTTATGCTA	TAGCATAACC	GCTATGCGCA	TGCGCATAGC
A	H7	UDP0056V3 (UDP0224)	ACAATAGAGT	ACTCTATTGT	ATCGCATATG	CATATGCGAT
A	E9	UDP0069V3	AAGGCCTTGG	CCAAGGCCTT	TCGAAGTACT	AGTACTTCGA
A	F9	UDP0070V3	TGTGGAGTAA	TTACTCCACA	GACACCGATG	CATCGGTGTC
A	G9	UDP0071V3	CACTTCTACT	AGTAGAAGTG	CTAGCGTCGA	TCGACGCTAG
A	H9	UDP0072V3	TGGACTCGTA	TACGAGTCCA	TAGCGAAGCA	TGCTTCGCTA
A	A10	UDP0073V3 (UDP0193)	TATCATGAGA	TCTCATGATA	AACACGTGGA	TCCACGTGTT
A	B10	UDP0074V3 (UDP0194)	CTTGGCCTCG	CGAGGCCAAG	GTGTTACCGG	CCGGTAACAC
A	C10	UDP0075V3 (UDP0195)	GTCTCGTGAA	TTCACGAGAC	AGATTGTTAC	GTAACAATCT
A	D10	UDP0076V3 (UDP0196)	CCATCCACGC	GCGTGGATGG	TTGACCAATG	CATTGGTCAA
A	D11	UDP0084V3	TAGATCCAGT	ACTGGATCTA	TCGCCGCTAG	CTAGCGGCGA
B	F1	UDP0102V3	TTGAAGCTAG	CTAGCTTCAA	TGTGTAAGCT	AGCTTACACA
B	A7	UDP0145V3	AACCTAGCAC	GTGCTAGGTT	TGAATATTGC	GCAATATTCA
B	B7	UDP0146V3	TGGTCGCTGT	ACAGCGACCA	CAGGAGCTCT	AGAGCTCCTG
B	C7	UDP0147V3	TCTGTGTGGA	TCCACACAGA	TTGTCGGATG	CATCCGACAA
B	D7	UDP0148V3	CCTAACACTT	AAGTGTTAGG	GCTAGTCCG	CGGAACTAGC

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).



Service/Sale End



B	C8	UDP0155V3	AATACGACAT	ATGTCGTATT	TTCTTGCTGG	CCAGCAAGAA
B	C11	UDP0179V3	GACAGGTCCG	CCGACCTGTC	TGCTCATAAC	GTTATGAGCA
C	A1	UDP0193V3	CCGTAACGAT	ATCGTTACGG	GCTCCGGAAG	CTTCCGGAGC
C	B1	UDP0194V3	TGACGTAGGA	TCCTACGTCA	TACTTAAGTG	CACTTAAGTA
C	C1	UDP0195V3	GCGATATAAC	GTTATATCGC	AAGACAAGGA	TCCTTGCTTT
C	D1	UDP0196V3	GATGGCCAAC	GTTGGCCATC	TGACATTCGT	ACGAATGTCA
C	B4	UDP0218V3	TACGTAGATG	CATCTACGTA	TGTAATTGAG	CTCAATTACA
C	E4	UDP0221V3	TGCGCTCTAG	CTAGAGCGCA	GCTTCTAGCA	TGCTAGAAGC
C	F4	UDP0222V3	GCGTGATCGA	TCGATCACGC	CATAGAGCCT	AGGCTCTATG
C	G4	UDP0223V3	GAGCCAGGTT	AACCTGGCTC	TGAGTATGTT	AACATACTCA
C	H4	UDP0224V3	ACTTCCATAA	TTATGGAAGT	GACAATAACA	TGTTATTGTC
C	C5	UDP0227V3	TTGAGGCTGC	GCAGCCTCAA	TAAGTGCTAG	CTAGCACTTA
C	B7	UDP0242V3	AGACTCTCTT	AAGAGAGTCT	TACGAATCTT	AAGATTCGTA
C	D7	UDP0244V3	TAGCCGAGAG	CTCTCGGCTA	TACCAGATCT	AGATCTGGTA
C	H8	UDP0256V3	TGTTCTATAC	GTATAGAACA	TGTCACAGGA	TCCTGTGACA
C	A10	UDP0265V3	TCTCGGTTAG	CTAACCGAGA	TCGATGCGCG	CGCGCATCGA
C	B10	UDP0266V3	CCTAGACACT	AGTGTCTAGG	CCTAGAAGCA	TGCTTCTAGG
C	C10	UDP0267V3	GAAGCTCCTC	GAGGAGCTTC	GACGTATACA	TGTATACGTC
C	D10	UDP0268V3	TAGTAGATGA	TCATCTACTA	TAGGCGACTT	AAGTCGCCTA
C	E12	UDP0285V3	GATGCCAAGG	CCTTGGCATC	GACCGATTCG	CGAATCGGTC
C	F12	UDP0286V3	AGTACCTATA	TATAGGTACT	TAGGTGAGAT	ATCTCACCTA
C	G12	UDP0287V3	TGTAGACTTG	CAAGTCTACA	CACGTACGTG	CACGTACGTG
C	H12	UDP0288V3	TCCTCTTCTC	GAGAAGAGGA	TTGACCTAAC	GTTAGGTCAA
D	B2	UDP0298V3	GATAACCTGG	CCAGGTTATC	GAATGCAGTT	AACTGCATTC
D	A5	UDP0321V3	GCGGAGTTAC	GTAACTCCGC	AATAGAACGG	CCGTTCTATT
D	A11	UDP0369V3	TGAATTCATC	GATGAATTC	TGCTGTGATT	AATCACAGCA
D	B11	UDP0370V3	GCTGCCGGAT	ATCCGGCAGC	GATCGAATAA	TTATTCGATC
D	C11	UDP0371V3	CATGGTTCGT	ACGAACCATG	ACTGAATTAC	GTAATTCAGT
D	D11	UDP0372V3	TACTTGGTTG	CAACCAAGTA	CCATCCACGC	GCGTGGATGG

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).



Service/Sale End



New Library Prep kit and Index kit definition files for use with Local Run Manager are available on the Support page: [https://support.illumina.com/sequencing/sequencing\\_kits/illumina-dna-rna-udi/product-files.html](https://support.illumina.com/sequencing/sequencing_kits/illumina-dna-rna-udi/product-files.html).

BaseSpace Run Planning will be updated to include the new Illumina DNA/RNA UD Indexes and can produce samplesheets to export for use with BCL Convert software.

The complete list of adapter sequences will be provided in the updated Illumina Adapter Sequences Document #[1000000002694](#).

The four new plate layouts include 42 new index pairs and 8 relocations of existing pairs:

Plate A: 8 novel v3 UDP designs and 8 moved from Plate C (20042666, 20040555)

Plate B: 7 novel v3 UDP designs

Plate C: 21 novel v3 UDP designs and 2 v2 UDPs retained from Plate C (20042666, 20040555)

Plate D: 6 novel v3 UDP designs and 4 v2 UDPs retained from Plate D (20042667, 20040556)

Indexes were moved from other plates to improve color balancing when pooling. The moved indexes are listed in Table 2A with their previous UDP# for your reference. Due to the relocation of some indexes across plate, we do not recommend mixed pooling of libraries prepped using the new kits with libraries prepped with the obsolete UD index kits. This will avoid read misidentifications during sequencing analysis.

Please refer to the Table 2B below, taken from [PON2022-1132](#) showing the v2 indexes updated in the previous version of obsolete UD Index kits. These v2 indexes will be retained in the same position in the new plates B (20091656, 20091657) and D (20091660, 20091661).

**Table 2B: Index v2 Sequence Changes in Catalog Numbers 20042666 and 20042667**

v1 Index Name	v1 Sequence	v2 Index Name	i7 Bases in Adapter	i7 Bases in Sample Sheet	i5 Bases for Sample Sheet in Forward Orientation	i5 Bases for Sample Sheet in Reverse Complement Orientation
<b>Changes in Index Set C (Catalog Number 20042666)</b>						
UDP0252	GTTGTGACTA+ ACATAACGGA	UDP0252v2	CCAGATTCGG	CCGAATCTGG	ATGAATCAAG	CTTGATTCAT
UDP0258	CAGCGGTAGA+ TCTACCGCTG	UDP0258v2	TATACCATGG	CCATGGTATA	TCTCGCGGAG	CTCCGCGAGA
<b>Changes in Index Set D (Catalog Number 20042667)</b>						
UDP0289	GAACAATTCC+ TAGAGTTGGA	UDP0289v2	GCTACTATCT	AGATAGTAGC	GGCACGCCAT	ATGGCGTGCC
UDP0290	TGTGGTCCGG+ AGAGCACTAG	UDP0290v2	GTCTTCTAAT	ATTAGAAGAC	GCAGGCTGGA	TCCAGCCTGC

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).



Service/Sale End

illumina®

UDP0291	CTTCTAAGTC+ ACTCTACAGG	UDP0291v2	ATGTGCGAGC	GCTCGCACAT	ATGGCTTAAT	ATTAAGCCAT
UDP0301	CAACGAGAGC+ GAATTGAGTG	UDP0301v2	CAAGCCACTA	TAGTGGCTTG	AGTTACTTGG	CCAAGTAACT

**Technical Support:**  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

**Customer Care:**  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).

PON2023-1440 (Document Number M-AMR-01002)

Page 7 of 10

**For Research Use Only. Not for use in diagnostic procedures.**



Service/Sale End

**Table 3: Library Prep Kits Compatible with the New UD Index Plates**

Library Prep	Product Name	Catalog Number
<b>Illumina DNA Prep</b>	Illumina DNA Prep, (M) Tagmentation (24 Samples, IPB)	20060060
	Illumina DNA Prep, (M) Tagmentation (96 Samples, IPB)	20060059
<b>Illumina DNA Prep with Enrichment</b>	Illumina DNA Prep with Enrichment, (S) Tagmentation (16 Samples)	20025523
	Illumina DNA Prep with Enrichment, (S) Tagmentation (96 Samples)	20025524
	Illumina DNA Prep, (S) Tagmentation (16 Samples)	20025519
	Illumina DNA Prep, (S) Tagmentation (96 Samples)	20025520
<b>Illumina DNA PCR-Free Prep</b>	Illumina DNA PCR-Free Prep, Tagmentation (24 Samples)	20041794
	Illumina DNA PCR-Free Prep, Tagmentation (96 Samples)	20041795
<b>Illumina RNA Prep with Enrichment</b>	Illumina RNA Prep with Enrichment, (L) Tagmentation (16 Samples)	20040536
	Illumina RNA Prep with Enrichment, (L) Tagmentation (96 Samples)	20040537
	Illumina RNA Prep, (L) Tagmentation (16 Samples)	20040542
	Illumina RNA Prep, (L) Tagmentation (96 Samples)	20040543
<b>Illumina Stranded RNA Prep</b>	Illumina Stranded Total RNA Prep, Ligation with Ribo-Zero Plus (16 Samples)	20040525
	Illumina Stranded Total RNA Prep, Ligation with Ribo-Zero Plus (96 Samples)	20040529
	Illumina Stranded mRNA Prep, Ligation (16 Samples)	20040532
	Illumina Stranded mRNA Prep, Ligation (96 Samples)	20040534

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customercare@illumina.com](mailto:customercare@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).





Service/Sale End

### Labeling Changes to the New Unique Dual Index Plates

The new UD Index Plate labels include more details to improve user experience and technical support. The new labels now show the lot number and expiration date with updated formatting to better align with automation specifications. The top label on the external plastic lid of the plates has not changed. The numeric barcode on the front plate label contains a 14-digit combined lot and serial number in machine and human-readable formats. The lot number may have 8-10 digits, with up to 10-digits reserved in the barcode. The side label instrument-readable barcode spans full width of the label, with human-readable barcode on top and contains a plate prefix (for example: UDA24050300001).

The first lot LN 20745797 for the UD Index Plate in Catalog 20091655 Illumina® RNA UD Indexes Set A, Ligation (96 Indexes, 96 Samples) and Catalog 20091654 Illumina® DNA/RNA UD Indexes Set A, Tagmentation (96 Indexes, 96 Samples) may contain a 13-digit front plate label barcode. The front label barcode will contain 14-digits on all future lots.

	Old Format	New Format
<b>Front Label</b>		
<b>Side Label</b>		

Technical Support:  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

Customer Care:  
[customer@illumina.com](mailto:customer@illumina.com)

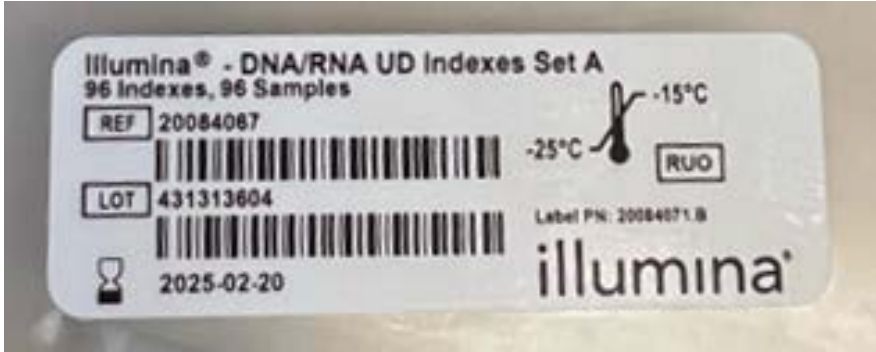
©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).



Service/Sale End



Please see below for example photos of the new UD Index Plate labeling.



### Why You're Receiving This Notification

You are receiving this notification because our records indicate that you are the appropriate contact for your organization for product changes, product obsolescence, and quality issues.

Please be aware that these notifications contain essential information about our products and are not marketing communications. As such, you may receive these notifications despite having opted-out of receiving marketing communications from Illumina. If you are not the appropriate individual in your organization to receive these notifications, you may unsubscribe from these notifications by [submitting this form](#). For more information, please see our [Privacy Policy](#).

**Technical Support:**  
[techsupport@illumina.com](mailto:techsupport@illumina.com)

**Customer Care:**  
[customer care@illumina.com](mailto:customer care@illumina.com)

©2023 Illumina, Inc. All rights reserved. All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).