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ZYMO RESEARCH

Zymo-Seq™ UDI Primer Sets

Highlights

- Pre-mixed, high performance Unique Dual Index (UDI) primers.
- Ideal for all NGS libraries containing TruSeq® adapters.
- Compatible with Illumina® sequencing platforms.

Catalog Numbers:
D3008, D3096



Scan with your smart-phone camera to
view the online protocol/video.



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Product Contents

Product Name	Catalog Number	Format	Volume Per Well	Storage Temperature
Zymo-Seq™ UDI Primer Set (Indexes 1-12) ¹	D3008	1.5 mL Tubes	20 µL / Index	-80 °C
Zymo-Seq™ UDI Primer Plate (Indexes 1-96) ¹	D3096	Single-Use 96-well Plate	10 µL / Index	-80 °C

¹ Integrity of kit components are guaranteed for up to 1 year from date of purchase. Reagents are routinely tested on a lot-to-lot basis to ensure they provide maximal performance and reliability.

Product Description

Indexes in the **Zymo-Seq™ UDI Primer Set (Indexes 1-12)** are dispensed in 1.5 mL tubes (Cat. No. D3008), and the **Zymo-Seq™ UDI Primer Plate (Indexes 1-96)** are dispensed in single-use foil-sealed 96-well plates (Cat. No. D3096). Indexes come pre-mixed, and the forward and reverse primers are provided at 5 µM total concentration (2.5 µM each). These indexes can be used to barcode any library containing TruSeq® adapters, and are compatible with the **Zymo-Seq RiboFree™ Total RNA Library Kit (R3000 & R3003)** and the **Zymo-Seq RRBS Library Kit (D5460 & D5461)**. Zymo-Seq™ index primers generate sequencing libraries that are compatible with all Illumina® sequencing platforms.

The complete index sample sheet (Pages 4-7) are available for download [here](#) (USA Only), or by visiting the Documents section of the R3000 and D3096 product pages at www.zymoresearch.com.

Instruction for Use

If using the **Zymo-Seq™ UDI Primer Sets** with a Zymo-Seq RiboFree Total RNA Library Kit (Cat. No. R3000/R3003) or Zymo-Seq RRBS Library Kit (Cat. No. D5460/D5461), please refer to the kit's instruction manual on the appropriate volume of the UDI primers to use.

For questions regarding compatibility with other library preparation kits, please contact Zymo Research Technical Support.

Plate Layout

To use UDI primers, pool ≥ 2 libraries down a column not across a row.

	1	2	3	4	5	6	7	8	9	10	11	12
A	UDI_01	UDI_09	UDI_17	UDI_25	UDI_33	UDI_41	UDI_49	UDI_57	UDI_65	UDI_73	UDI_81	UDI_89
B	UDI_02	UDI_10	UDI_18	UDI_26	UDI_34	UDI_42	UDI_50	UDI_58	UDI_66	UDI_74	UDI_82	UDI_90
C	UDI_03	UDI_11	UDI_19	UDI_27	UDI_35	UDI_43	UDI_51	UDI_59	UDI_67	UDI_75	UDI_83	UDI_91
D	UDI_04	UDI_12	UDI_20	UDI_28	UDI_36	UDI_44	UDI_52	UDI_60	UDI_68	UDI_76	UDI_84	UDI_92
E	UDI_05	UDI_13	UDI_21	UDI_29	UDI_37	UDI_45	UDI_53	UDI_61	UDI_69	UDI_77	UDI_85	UDI_93
F	UDI_06	UDI_14	UDI_22	UDI_30	UDI_38	UDI_46	UDI_54	UDI_62	UDI_70	UDI_78	UDI_86	UDI_94
G	UDI_07	UDI_15	UDI_23	UDI_31	UDI_39	UDI_47	UDI_55	UDI_63	UDI_71	UDI_79	UDI_87	UDI_95
H	UDI_08	UDI_16	UDI_24	UDI_32	UDI_40	UDI_48	UDI_56	UDI_64	UDI_72	UDI_80	UDI_88	UDI_96

Unique Dual Index Primer Sequences

Forward Primer Sequence (i5)¹

5'-AATGATACGGCGACCACCGAGATCTACACNNNNNNNNACACTC
TTCCCTACACGACGCTCTCCGATCT-3'

Reverse Primer Sequence (i7)¹

5'-CAAGCAGAAGACGGCATACGAGATNNNNNNNNGTGACTGGAGT
TCAGACGTGTGCTCTCCGATCT-3'

Index (Fwd + Rev)	i5 Bases in Adapter/ for MiSeq, HiSeq 2000/2500, and NovaSeq v1.0 ²	i5 Bases for iSeq, NextSeq, HiSeq 3000/3500, and NovaSeq v1.5 ²	i7 Bases in Adapter	i7 Bases for all sample sheets
UDI_01	AGCGCTAG	CTAGCGCT	AACCGCGG	CCGCGGTT
UDI_02	GATATCGA	TCGATATC	GGTTATAA	TTATAACC
UDI_03	CGCAGACG	CGTCTGCG	CCAAGTCC	GGACTTGG
UDI_04	TATGAGTA	TACTCATA	TTGGACTT	AAGTCCAA
UDI_05	AGGTGCGT	ACGCACCT	CAGTGGAT	ATCCACTG
UDI_06	GAACATAC	GTATGTTC	TGACAAGC	GCTTGTCA
UDI_07	ACATAGCG	CGCTATGT	CTAGCTTG	CAAGCTAG
UDI_08	GTGCGATA	TATCGCAC	TCGATCCA	TGGATCGA
UDI_09	CCAACAGA	TCTGTTGG	CCTGAACT	AGTTCAGG
UDI_10	TTGGTGAG	CTCACCAA	TTCAGGTC	GACCTGAA
UDI_11	CGCGGTTT	GAACCGCG	AGTAGAGA	TCTCTACT
UDI_12	TATAACCT	AGGTTATA	GACGAGAG	CTCTCGTC
UDI_13	AAGGATGA	TCATCCTT	AGACTTGG	CCAAGTCT
UDI_14	GGAAGCAG	CTGCTTCC	GAGTCCAA	TTGGACTC
UDI_15	TCGTGACC	GGTCACGA	CTTAAGCC	GGCTTAAG
UDI_16	CTACAGTT	AACTGTAG	TCCGGATT	AATCCGGA
UDI_17	ATATTCAC	GTGAATAT	CTGTATTA	TAATACAG

¹ The NNNNNNNN sequences correspond to the "Bases in Adapter" Columns in the table beginning on page 4.

² "NovaSeq v1.0" and "NovaSeq v1.5" refer to v1.0 and v1.5 reagent chemistry, respectively.

UDI_18	GCGCCTGT	ACAGGCGC	TCACGCCG	CGGCCTGA
UDI_19	ACTCTATG	CATAGAGT	ACTTACAT	ATGTAAGT
UDI_20	GTCTCGCA	TGCGAGAC	GTCCGTGC	GCACGGAC
UDI_21	AAGACGTC	GACGTCTT	AAGGTACC	GGTACCTT
UDI_22	GGAGTACT	AGTACTCC	GGAACGTT	AACGTTCC
UDI_23	ACCGGCCA	TGGCCGGT	AATTCTGC	GCAGAATT
UDI_24	GTTAATTG	CAATTAAC	GGCCTCAT	ATGAGGCC
UDI_25	AACCGCGG	CCGCGGTT	ATCTTAGT	ACTAAGAT
UDI_26	GGTTATAA	TTATAACC	GCTCCGAC	GTCGGAGC
UDI_27	CCAAGTCC	GGACTTGG	ATACCAAG	CTTGGTAT
UDI_28	TTGGACTT	AAGTCAA	GCGTTGGA	TCCAACGC
UDI_29	CAGTGGAT	ATCCACTG	CTTACCGG	CCGTGAAG
UDI_30	TGACAAGC	GCTTGTC	TCCTGTAA	TTACAGGA
UDI_31	CTAGCTTG	CAAGCTAG	AGAATGCC	GGCATTCT
UDI_32	TCGATCCA	TGGATCGA	GAGGCATT	AATGCCTC
UDI_33	CCTGAACT	AGTTCAGG	CCTCGGTA	TACCGAGG
UDI_34	TTCAGGTC	GACCTGAA	TTCTAACG	CGTTAGAA
UDI_35	AGTAGAGA	TCTCTACT	ATGAGGCT	AGCCTCAT
UDI_36	GACGAGAG	CTCTCGTC	GCAGAATC	GATTCTGC
UDI_37	AGACTTGG	CCAAGTCT	CACTACGA	TCGTAGTG
UDI_38	GAGTCAA	TTGGACTC	TGTCGTAG	CTACGACA
UDI_39	CTTAAGCC	GGCTTAAG	ACCACTTA	TAAGTGGT
UDI_40	TCCGGATT	AATCCGGA	GTTGTCCG	CGGACAAC
UDI_41	CTGTATTA	TAATACAG	ATCCATAT	ATATGGAT
UDI_42	TCACGCCG	CGGCGTGA	GCTTGCGC	GCGCAAGC
UDI_43	ACTTACAT	ATGTAAGT	AGTATCTT	AAGATACT
UDI_44	GTCCGTGC	GCACGGAC	GACGCTCC	GGAGCGTC
UDI_45	AAGGTACC	GGTACCTT	CATGCCAT	ATGGCATG
UDI_46	GGAACGTT	AACGTTCC	TGCATTGC	GCAATGCA
UDI_47	AATTCTGC	GCAGAATT	ATTGGAAC	GTTCCAAT

UDI_48	GGCCTCAT	ATGAGGCC	GCCAAGGT	ACCTTGGC
UDI_49	ATCTTAGT	ACTAAGAT	CGAGATAT	ATATCTCG
UDI_50	GCTCCGAC	GTCGGAGC	TAGAGCGC	GCGCTCTA
UDI_51	ATACCAAG	CTTGGTAT	AACCTGTT	AACAGGTT
UDI_52	GCGTTGGA	TCCAACGC	GGTTCACC	GGTGAACC
UDI_53	CTTCACGG	CCGTGAAG	CATTGTTG	CAACAATG
UDI_54	TCCTGTAA	TTACAGGA	TGCCACCA	TGGTGGCA
UDI_55	AGAATGCC	GGCATTCT	CTCTGCCT	AGGCAGAG
UDI_56	GAGGCATT	AATGCCTC	TCTCATTC	GAATGAGA
UDI_57	CCTCGGTA	TACCGAGG	ACGCCGCA	TGCGGCGT
UDI_58	TTCTAACG	CGTTAGAA	GTATTATG	CATAATAC
UDI_59	ATGAGGCT	AGCCTCAT	GATAGATC	GATCTATC
UDI_60	GCAGAATC	GATTCTGC	AGCGAGCT	AGCTCGCT
UDI_61	CACTACGA	TCGTAGTG	CAGTTCCG	CGGAACTG
UDI_62	TGTCGTAG	CTACGACA	TGACCTTA	TAAGGTCA
UDI_63	ACCACTTA	TAAGTGGT	CTAGGCAA	TTGCCTAG
UDI_64	GTTGTCCG	CGGACAAC	TCGAATGG	CCATTCGA
UDI_65	ATCCATAT	ATATGGAT	CTTAGTGT	ACACTAAG
UDI_66	GCTTGCGC	GCGCAAGC	TCCGACAC	GTGTCGGA
UDI_67	AGTATCTT	AAGATACT	AACAGGAA	TTCTGTTT
UDI_68	GACGCTCC	GGAGCGTC	GGTGAAGG	CCTTCACC
UDI_69	CATGCCAT	ATGGCATG	CCTGTGGC	GCCACAGG
UDI_70	TGCATTGC	GCAATGCA	TTCACAAT	ATTGTGAA
UDI_71	ATTGGAAC	GTTCCAAT	ACACGAGT	ACTCGTGT
UDI_72	GCCAAGGT	ACCTTGGC	GTGTAGAC	GTCTACAC
UDI_73	CGAGATAT	ATATCTCG	GTTAATTG	CAATTAAC
UDI_74	TAGAGCGC	GCGCTCTA	ACCGGCCA	TGGCCGGT
UDI_75	AACCTGTT	AACAGGTT	GGAGTACT	AGTACTCC
UDI_76	GGTTCACC	GGTGAACC	AAGACGTC	GACGTCTT
UDI_77	CATTGTTG	CAACAATG	GTCTCGCA	TGCGAGAC

UDI_78	TGCCACCA	TGGTGGCA	ACTCTATG	CATAGAGT
UDI_79	CTCTGCCT	AGGCAGAG	GCGCCTGT	ACAGGCGC
UDI_80	TCTCATTC	GAATGAGA	ATATTCAC	GTGAATAT
UDI_81	ACGCCGCA	TGCGGCGT	CTACAGTT	AACTGTAG
UDI_82	GTATTATG	CATAATAC	TCGTGACC	GGTCACGA
UDI_83	GATAGATC	GATCTATC	GGAAGCAG	CTGCTTCC
UDI_84	AGCGAGCT	AGCTCGCT	AAGGATGA	TCATCCTT
UDI_85	CAGTTCCG	CGGAACTG	TATAACCT	AGTTTATA
UDI_86	TGACCTTA	TAAGGTCA	CGCGGTTT	GAACCGCG
UDI_87	CTAGGCAA	TTGCCTAG	TTGGTGAG	CTCACCAA
UDI_88	TCGAATGG	CCATTCGA	CCAACAGA	TCTGTTGG
UDI_89	CTTAGTGT	ACACTAAG	GTGCGATA	TATCGCAC
UDI_90	TCCGACAC	GTGTCGGA	ACATAGCG	CGCTATGT
UDI_91	AACAGGAA	TTCCTGTT	GAACATAC	GTATGTTT
UDI_92	GGTGAAGG	CCTTCACC	AGGTGCGT	ACGCACCT
UDI_93	CCTGTGGC	GCCACAGG	TATGAGTA	TACTCATA
UDI_94	TTCACAAT	ATTGTGAA	CGCAGACG	CGTCTGCG
UDI_95	ACACGAGT	ACTCGTGT	GATATCGA	TCGATATC
UDI_96	GTGTAGAC	GTCTACAC	AGCGCTAG	CTAGCGCT

Ordering Information

Product Description	Catalog No.	Size
Zymo-Seq RiboFree™ Total RNA Library Kit	R3000	12 Preps.
Zymo-Seq RiboFree™ Total RNA Library Kit	R3003	96 Preps.
Zymo-Seq RiboFree™ Universal cDNA Kit	R3001	12 Preps.
Zymo-Seq RRBS Library Kit	D5460 D5461	24 Preps. 48 Preps.
Zymo-Seq™ UDI Primer Set (Indexes 1-12)	D3008	12 Indexes
Zymo-Seq™ UDI Primer Plate (Indexes 1-96)	R3096	96 Indexes

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Zymo-Seq WGBS Library Kit (D5465)
Zymo-Seq RRBS Library Kit (D5460)



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Library Kit (R3000)



Chromatin Structure

Zymo-Seq ATAC Library Kit (D5458)
Zymo-Spin ChIP Kit (D5209)



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