ZYMO RESEARCH

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INSTRUCTION MANUAL

Zymo-Seq™ UDI Primer Sets

Cat. No. **D3008 & D3096**

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 (Ca. No. D3096). Indexes come as pre-mixes, 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). Zymo-Seq™ index primers generate sequencing libraries that are compatible with all Illumina® platforms.

The complete index sample sheet (Pages 2-4) are availalble for downloaded here (USA Only), or by visiting the Documents section of the R3000 and D3096 product pages at www.zymoresearch.com.

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ZYMO RESEARCH CORP.

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Product Contents:

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

Note: 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.

Satisfaction of all Zymo Research products is guaranteed. If you are dissatisfied with this product, please call 1-888-882-9682.

Plate Setup:

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):
5′–AATGATACGGCGACCACCGAGATCTACAC**NNNNNNNN**ACACTCTTTCCCTACACGACGCTCTTCCGATCT–3′

Reverse Primer Sequence (i7):
5′–CAAGCAGAAGACGGCATACGAGAT**NNNNNNNN**GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT–3′

Note: The **NNNNNNNN** sequences correspond to the "Bases in Adapter" columns in the table below.

Index (Fwd + Rev)	**i5 Bases in Adapter / for NovaSeq, MiSeq, and HiSeq 2000/2500**	**i5 Bases for iSeq, NextSeq, and HiSeq 3000/3500**	**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	CGCGGTTC	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
UDI_18	GCGCCTGT	ACAGGCGC	TCACGCCG	CGGCGTGA
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	AAGTCCAA	GCGTTGGA	TCCAACGC
UDI_29	CAGTGGAT	ATCCACTG	CTTCACGG	CCGTGAAG
UDI_30	TGACAAGC	GCTTGTCA	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	GAGTCCAA	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	TTCCTGTT
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	AGGTTATA
UDI_86	TGACCTTA	TAAGGTCA	CGCGGTTC	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	GTATGTTC
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.	Kit 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™ UDI Primer Set (Indexes 1-12)	D3008	12 Indexes
Zymo-Seq™ UDI Primer Plate (Indexes 1-96)	D3096	96 Indexes

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