



iUDI Set (48 rxns)

1. Introduction

The **iUDI Set (48 rxns)** contains 48 unique dual-indexed PCR primers for the amplification of Illumina®-compatible NGS libraries. These primers are compatible with the Immagina kits listed in Table I, as well as with any commercially available kit that utilizes TruSeq™-compatible indexing primers.

Table I. *iUDI Set (48 rxns) Immagina products compatibility.*

Product Name	Cat nr
ALL-IN-ONE RiboLace Gel Free (12 rxns)	GF001-12
RiboLace 360 TE Gel Free Kit (12 rxns)	360TE-12
RiboLace 360 Gel Free Kit (12 rxns)	360SQ-12
LACEseq (12rxns)	LS001-12
ALL-IN-ONE RiboLace Multiplexing	MPX36-06
ALL-IN-ONE RiboLacePro (12 rxns)	RS0XL-12

The indexed PCR primers are supplied pre-dispensed in in 96- wells PCR plate. Each dual index is intended for single use. All indexes have been functionally validated to work with Illumina sequencing systems using two- or four- channel chemistry for base calling.

2. Product Catalog

Store all components at -20°C.

Table II. *iUDI Set (48 rxns) Unique Dual Index sets.*

Product name	Set	Cat. No.	Concentration	Volume per tube
iUDIs (48 rxns)	Y1-48	#UDI0Y-48	20 µM total (10 µM each Primer)	9 µl

3. General Considerations

A. Best Practices

- Avoid subjecting the iUDI Set (48 rxns) plate to unnecessary freeze/thaw cycles.
- Before use, thaw the primers on ice and briefly spin the plate to collect contents at the bottom of the tubes. Keep the plate on ice during handling.
- When preparing the PCR reaction, pierce the seal of the plate using a pipette tip, then directly pipet the required volume of your indexing primers. Always use a separate pipette tip for each well to avoid cross contamination of indexes.

B. Multiplexing and Index Pooling

It is important to select appropriate single indexes that are unique and meet the Illumina-recommended compatibility requirements. For small pools (≤ 4 samples), please verify color balance before pooling following the [Illumina guidelines](#).

4. iUDI LACEseq Plates Unique Dual Index Sequences

Set Y1-48. In the iUDIs (48 rxns) set Y1-48, Cat. Number #UDI0Y-48, the unique dual indexes (y01-y48) are 10-nt long i5 and i7 dual index sequences (Table III).

Table III. Set iUDI (48 rxns) Unique Dual Index Sequences Cat. Number #UDI0Y-48

IMMAGINA index name	i5 index (HiSeq® 2000/2500 MiSeq®, NextSeq2000, NovaSeq®6000 v1.0)	i5 index (NextSeq®500/550, iSeq, MiniSeq, HiSeq 3000/4000/X, NextSeq 2000 NovaSeq®6000 v1.5)	i7 index (all Illumina systems)
y01	ATGCGCTTAT	ATAAGCGCAT	AGTTGCGAAG
y02	CACTTCACCA	TGGTGAAGTG	CGTCTTGACG
y03	GGTATAGGGG	CCCCTATACC	CAGTGTGACA
y04	GCAATTCCGC	GCGGAATTGC	CTTTACGGCT
y05	AACCGTGTA	TTACACGGTT	GGCAATGTGG
y06	CTTCACTGCT	AGCAGTGAAG	GTTTGGACGT
y07	ACTGCACTAC	GTAGTGCACT	AGTGTTTCGAG
y08	GGAACATGGG	CCCATGTTCC	TTCTCTGGTT
y09	CCAGTATCCC	GGGATACTGG	TGAACTGGTG
y10	AACAGTCCAA	TTGGACTGTT	AATCTCGCAA
y11	TCGGATTCTC	GAGAATCCGA	GTGAGCTTGT
y12	CAACGAGTCA	TGACTCGTTG	TCTGGCTATC
y13	CGCGTATTCTG	CGAATACGCG	TGCAGTTCTG
y14	TGGTATCCTG	CAGGATACCA	TGAGGATCTG
y15	CAAGGTACCA	TGGTACCTTG	ATGGAAGGAT
y16	ACGGTACAAC	GTTGTACCGT	CTAGGCTTCT
y17	TCCACGTTTC	GAAACGTGGA	GGATGGAAGG
y18	ACCTCAGTAC	GTAAGTGAAGT	TAGCGTTCTA
y19	ACACGAGAAC	GTTCTCGTGT	TTTCGCTGTT
y20	CACTGTAGCA	TGCTACAGTG	GTTAACCGGT
y21	GCGTTAGAGC	GCTCTAACGC	TCGTCTGATC
y22	AACGCCTTAA	TTAAGGCGTT	TGTAGACGTG
y23	ACCATGTCAC	GTGACATGGT	GAAGTCTCGA
y24	GATCTTGCGA	TCGCAAGATC	ATGCCAGTAT

y25	CCGTAACTCC	GGAGTTACGG	CCGTTCAACC
y26	AACAAGGCAA	TTGCCTTGTT	GGATTCGAGG
y27	TTGCAACGTT	AACGTTGCAA	CATGTAGCCA
y28	CAATCAGGCA	TGCCTGATTG	TGCTTACCTG
y29	GTACACCTGT	ACAGGTGTAC	ACGTGCTTAC
y30	CGAGTTAGCG	CGCTAACTCG	TTAGCGTGTT
y31	ACAGGCATAC	GTATGCCTGT	AAGTCGGTAA
y32	GTTCCATGGT	ACCATGGAAC	GTATAGCGGT
y33	CACGATTCCA	TGGAATCGTG	TGTGCTCATG
y34	CTCTCAGACT	AGTCTGAGAG	CAAACGGTCA
y35	GAACGAAGGA	TCCTTCGTTC	GTCAGAGTGT
y36	CATCACGTCA	TGACGTGATG	TCGATTGCTC
y37	CTCGGTAACT	AGTTACCGAG	TGTCGCATTG
y38	CCAAGTAGCC	GGCTACTTGG	TGCCAAGTTG
y39	GGTGTACAGG	CCTGTACACC	GACTCCTAGA
y40	CCTGTCAACC	GGTTGACAGG	GGAACCTTGG
y41	ACAACGTGAC	GTCACGTTGT	AGATGACCAG
y42	TGGACCATTG	CAATGGTCCA	GTCCTATGGT
y43	CACATGGTCA	TGACCATGTG	GCGTTAAGGC
y44	AACTTGCCAA	TTGGCAAGTT	TAGTGCCATA
y45	CCTCATCTCC	GGAGATGAGG	GTGGATTTCGT
y46	AGTACACGAG	CTCGTGTACT	GATCGAGTGA
y47	CCTACCTACC	GGTAGGTAGG	TGAACGTCTG
y48	TCAGTAGGTC	GACCTACTGA	ACCTGTTGAC

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