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NGS Multiplex Oligos For Illumina (Index Primers Set II)

Product Number: EK0376

Shipping and Storage

Storage condition: Store at -20℃, transport with ice packs.

Components

Component	24 rxns	96 rxns
Adaptor for Illumina	60μL	240μL
Universal Primer for Illumina	30μL	120μL
Index 13-27 Primers for Illumina	12×10μL	12×20μL

Description

This kit provides adaptors and primers for next-generation sequencing library construction, specially designed for the Illumina platform. The designed index primers enable preparation of multiple library samples for multiplex high-throughput sequencing. The constructed libraries are compatible with sequencing platforms including Illumina GAIIx, HiScanSQ, HiSeq 2500/2000/1000 and MiSeq.

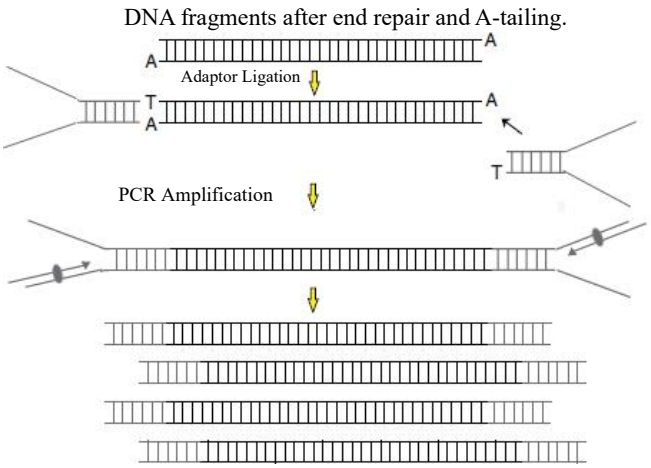
Self-supplied Instruments, Reagents and Consumables

1. Magnetic stand: DynaMag™-2 is recommended.
2. DNA Purification and Recovery Kit: Our magnetic bead-based DNA Purification and Recovery Kit (Cat.No. DNK2508) is recommended.
3. DNA Library Preparation Kit: Our Rapid DNA Library Prep Kit for Next-Generation Sequencing (Cat.No. PCK85) is recommended.
4. Absolute ethanol.
5. Reaction tubes: Low-binding PCR tubes and 1.5mL centrifuge tubes are recommended.
6. Pipette tips: High-quality filter tips are recommended to prevent contamination of kits and library samples.

Pre-experiment Preparation and Important Notes

1. Adaptors are double-stranded. Do not store them above room temperature to avoid denaturation and loss of performance.
2. Briefly centrifuge index primers before opening the cap to collect liquid at the bottom of the tube and prevent cross-contamination between different primers.

Workflow



Protocol

The protocol for the Multiple-Sample Adaptor & Primer Kit for Next-Generation Sequencing shall be performed in accordance with the protocol of Rapid DNA Library Prep Kit for Next-Generation Sequencing (Cat.No. PCK85).

1. **Adaptor for Illumina:**

   5′-/5Phos/ GATCGGAAGAGCACACGTCTGAACTCCAGT*C -3′

   5′-ACACTCTTTCCCTACACGACGCTCTTCCGATC*T-3′

2. **Universal Primer for Illumina:**

   5-AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATC*T -3′

3. **Index 1–12 Primers for Illumina:**

	Index Primers for Illumina	Index
Index 13 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGA**TTGTTGACT**GTGAC TGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	AGTCAACA
Index 14 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**ACGGAACT**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	AGTTCCGT
Index 15 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**TCTGACATGT**GAC TGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	ATGTCAGA
Index 16 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**CGGGACGG**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	CCGTCCCG
Index 18 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**GTGCGGAC**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	GTCCGCAC
Index 19 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGATC**GTTTCAC**GTGAC TGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	GTGAAACG
Index 20 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**AAGGCCAC**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	GTGGCCTT
Index 21 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**TCCGAAAC**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	GTTTCGGA
Index 22 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGATT**ACGTACG**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	CGTACGTA
Index 23 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGAT**ATCCACTC**GTGAC TGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	GAGTGGAT
Index 25 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGA**TATATCAGT**GTGAC TGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	ACTGATAT
Index 27 Primer for Illumina	5-CAAGCAGAAGACGGCATACGAGA**TAAAGGAAT**GTGA CTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3′	ATTCCTTT