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UDB Primer Kit for MGI (plates)

Product Number: EK0705

Shipping and Storage

All components should be stored at -30 ~ -15°C and shipped on dry ice. Do not store this product at a temperature above room temperature and avoid repeated freeze-thaw cycles.

Components

Component	EK0705
UDB Primer for MGI 001-096 (Set 1)	4×96rxns
UDB Primer for MGI 097-192 (Set 2)	4×96rxns
UDB Primer for MGI 193-288 (Set 3)	4×96rxns
UDB Primer for MGI 289-384 (Set 4)	4×96rxns
UDB Adapter(10μM)	16×96rxns
UDB Adapter(10μM)	5×1536μL
UDB Primer for MGI 001-384(10μM0	20μL each

Description

UDB Primer Kit for MGI (plates) is a supporting kit dedicated to DNA library construction for the MGI high-throughput sequencing platform. It adopts a dual-end adaptor solution and contains UDB Adapter and UDB Primer for NGS library preparation. The kit includes 384 kinds of dual-end unique Barcode-tagged UDB Primers for NGS library construction, for use with MGI library preparation kits supplied by our company. All reagents provided in this kit have undergone strict quality control and functional verification to maximize the stability and reproducibility of library construction.

Pre-experiment Preparation and Important Notes

1. The concentration of UDB Adapter in this kit is 10 μM. The usage amount of adapter for individual library construction shall be adjusted according to the library preparation kit used and the input amount of starting template.
2. The UDB Adapter supplied in this kit is a universal short adapter, and complete libraries need to be obtained by PCR amplification. UDB Primers provide Barcode sequence tags for sample discrimination during high-throughput sequencing. The concentration of UDB Primer for MGI in this kit is 10μM.
3. Do not heat the adapter. Allow it to thaw slowly at room temperature; the laboratory temperature is preferably set at 20–25°C. Avoid repeated freeze-thaw cycles of the adapter. Aliquoting for storage is recommended, and short-term storage at 4°C is acceptable.
4. The dual-Barcode sequences designed for the MGI platform follow the base-balance principle. Among them, UDB 1–288 are pre-set balanced-base Barcode combinations grouped by every 8 UDBs, and UDB 289–384 are pre-set balanced-base Barcode combinations grouped by every 4 UDBs, for example: UDB 001–UDB 008; UDB 289–UDB 292..

Scope of Application

Suitable for the construction of dual-end Index-tagged libraries on the MGI high-throughput sequencing platform. Recommended for use with Fast NGS Library Kit for Illumina&MGI (PCK85M) and Universal DNA Library Kit (Illumina&MGI) (PCK48).

Sequence Information

UDB Adapter for MGI:

5′-/5Phos/ AGTCGGAGGCCAAGCGGTCTTAGGAAGACAATCAG -3′

5′-TTGTCTTCCTAAGCAACTCCTTGGCTCACAGAACGACATGGCTACGATCCGACTT -3′

Barcode 2 Primer for MGI:

5′-/5Phos/CTCTCAGTACGTCAGCAGTT[Barcode 2]CAACTCCTTGGCTCACAGAAC -3′

Barcode 1 Primer for MGI:

5′-GCATGGCGACCTTATCAG[Barcode 1]TTGTCTTCCTAAGACCGCTTGG-3′

[Barcode 2] represents the 10 bp Barcode 2 sequence, and [Barcode 1] represents the 10 bp Barcode 1 sequence.

The structure of the constructed library is as follows

5'-GCATGGCGACCTTATCAG[Barcode 1]TTGTCTTCCTAAGACCGCTTGGCCTCCGACTT
[DNAinsek]AAGTCGGATCGTAGCCATGTCGTTCTGTGAGCCAAGGAGTTG[Barcode2]
AACTGCTGACGTACTGAGAG-3'.
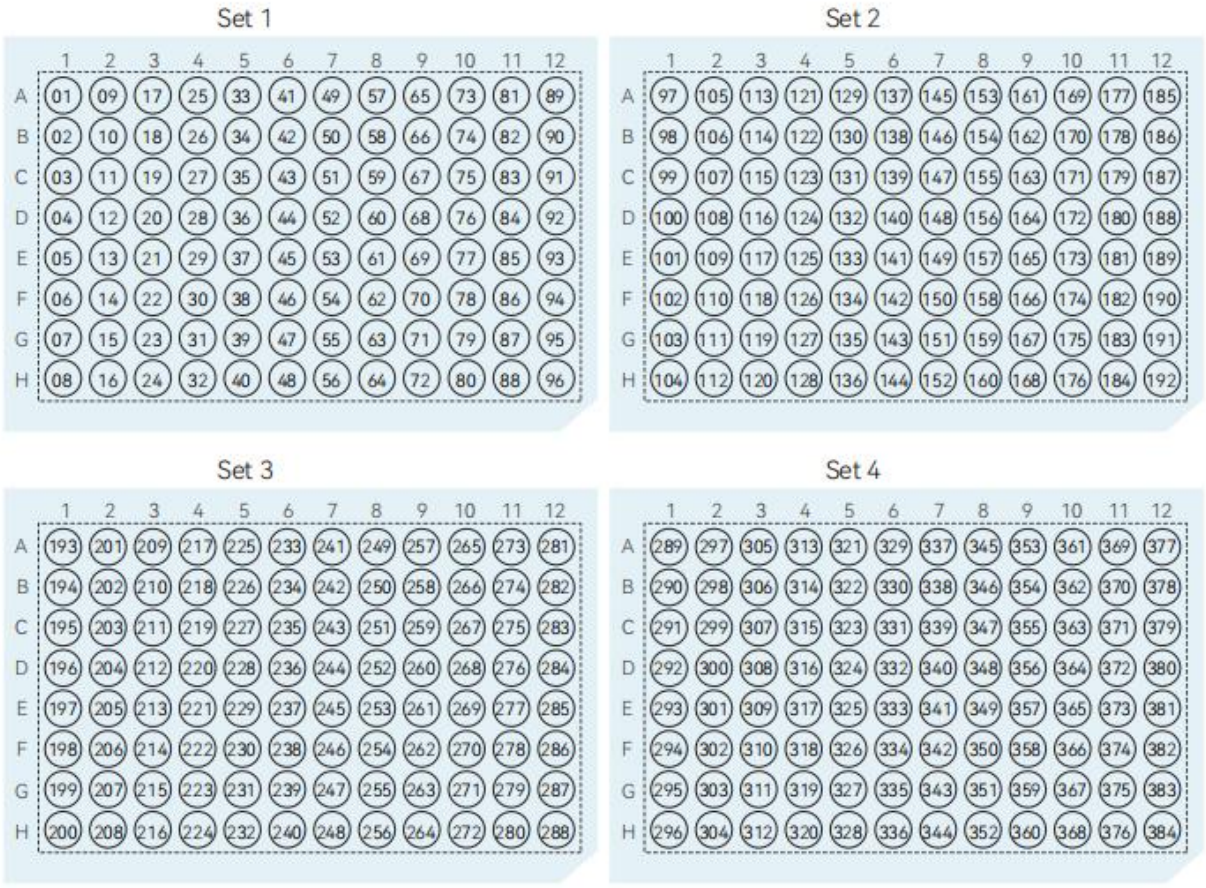
Plate Layout Information