

TargetSeq® Universal Blocking Oligo (for Illumina) —

TruSeq Library Universal Blocking Sequences on Illumina

TargetSeq® Universal Blocking Oligo (for Illumina) is a universal blocking sequence that can block library adapters during probe hyb capture and is suitable for TruSeq libraries on Illumina. This product can be used to block sequencing adapters, Index (single-end & paired-end, 6-base & 8-base) and Unique Molecular labels (UMI) sequences during the hyb capture process to improve the capture specificity. It is a one-tube premix with simple operation.

Among them, TargetSeq® Universal Blocking Oligo (for Illumina) is the standard version of the universal blocking sequence, which can block TruSeq libraries within 6 µg. TargetSeq® Eco Universal Blocking Oligo (for Illumina) is an economical universal blocking sequence that can block TruSeq libraries within 3 µg.

Product Advantages

1

Extremely strong versatility

3

Different versions are available

Standard and economic versions of universal blocking sequences can be provided to meet different experimental requirements.

2

Excellent blocking effect

In the hybrid capture experiments with different adapter types, the blocking effect was excellent, which could significantly reduce the sequencing cost.

4

Easy operation

One-tube premix solution, easy to operate and can effectively reduce experimental errors.

Single-end Index



Paired-end Index



Single-end UMI



Paired-end UMI



Figure 1. TruSeq Library with Different Adapter Types can be blocked by TargetSeq® Universal Blocking Oligo (for Illumina)

Data

1 Excellent blocking effect

The experimental results show that in the capture experiments of various adapter libraries, TargetSeq® Universal Blocking Oligo (for Illumina) has extremely high capture efficiency and excellent blocking effect.

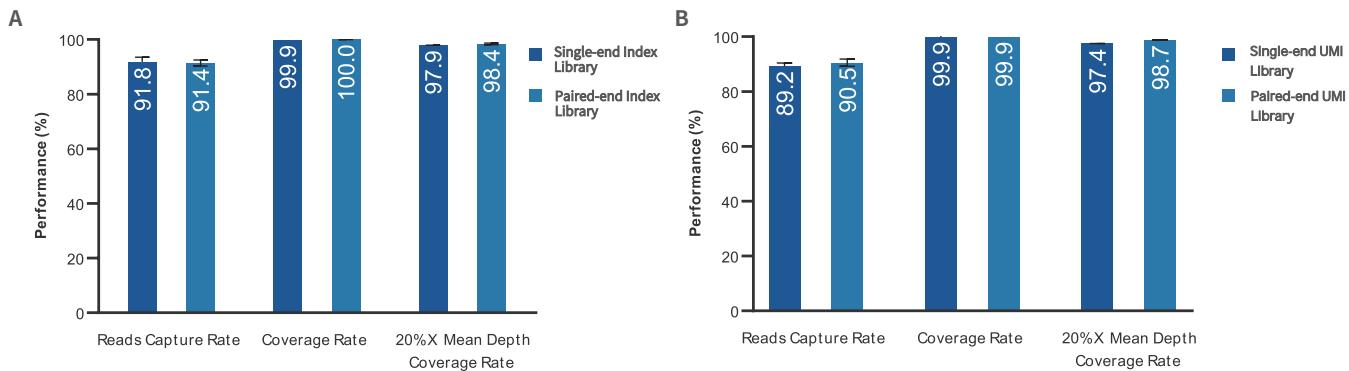


Figure 2. TargetSeq® Universal Blocking Oligo (for Illumina), library blocking effects for different adapter types. A: respectively single-end & paired-end Index libraries; B: respectively single-end & paired-end UMI libraries. The experiment sample is gdNA, adopting IGT® Fast Library Prep Kit and different types of adapter kitfor library prep, library input is 750 ng, choose 944 kb Panel for capture , NovaSeq 6000 platform with PE150 sequencing. Analyze the capture efficiency, coverage and uniformity after the offline data undergoes QC and comparison.

2 Excellent blocking effect of multi-hybrid libraries

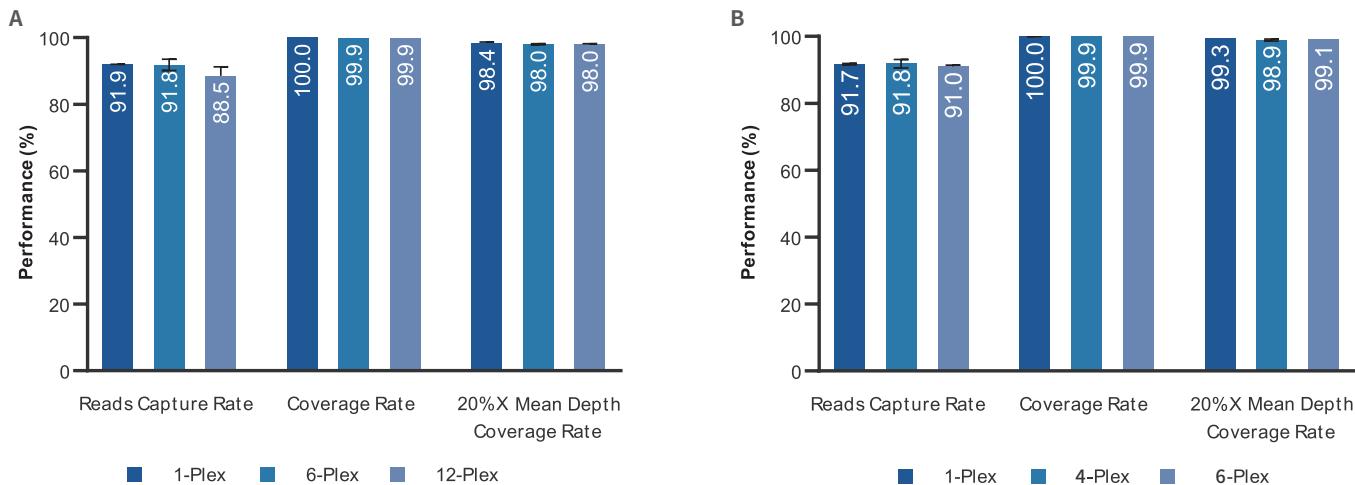


Figure 3. TargetSeq® Universal Blocking Oligo (for Illumina) blocking effect for multi-hybrid reaction. A: Standard TargetSeq® Universal Blocking Oligo (for Illumina), B: ECO TargetSeq® Eco Universal Blocking Oligo (for Illumina). The experiment sample is gdNA, adopting IGT® Fast Library Prep Kit & IGT® Adapter & UDI Primer (for Illumina) for library prep, the input for a single library is 500 ng, respectively perform hybrid plans of 1-Plex (500 ng)、4-Plex (2 μ g)、6-Plex (3 μ g) and 12-Plex (6 μ g) , choose 944 kb Panel for capture, NovaSeq 6000 platform PE150 sequencing. Analyze the capture efficiency, coverage and uniformity after the offline data undergoes QC and comparison.

Product Information

Product Information	Catalog	Spec.	Catalog #
TargetSeq® Universal Blocking Oligo (for Illumina)	Standard TruSeq Library Universal Blocking Sequence	16 rxn/96 rxn	C80491/C80492
TargetSeq® Eco Universal Blocking Oligo (for Illumina)	ECO TruSeq Library Universal Blocking Sequence	16 rxn/96 rxn	C80501/C80502

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