

# TargetSeq® Universal Blocking Oligo (for MGI)

## —Universal Blocking Sequence on MGI

TargetSeq® Universal Blocking Oligo (for MGI) is a universal blocking sequence that can block library adapters during probe hybrid capture, applicable to MGI sequencing platform. The series product can combine with the adapter sequences of MGI libraries, preventing self-connection between library adapters during hybridization. This will enhance the specificity of targeted capture and improve data utilization.

Among them, TargetSeq® Universal Blocking Oligo (for MGI DI) is applicable to block the libraries of paired-end 10 nt Index adapter on MGI; TargetSeq® Universal Blocking Oligo Kit (for MGI SI) is applicable to block libraries of single-end 10 nt Index adapter on MGI. Please pay attention to the library structure type when choosing. Mixing is not supported.

### Product Advantages

1

Extremely strong versatility

Self-developed blocking sequence design, which can block multiple Index sequences and UMI sequences simultaneously.

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.

3

Different versions are available

The MGI platform has corresponding universal blocking sequences for both single-end and paired-end applications, customers can choose as needed.

4

Easy operation

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

### Library types can be blocked

Paired-end Index



Paired-end UMI



Figure 1. TargetSeq® Universal Blocking Oligo (for MGI DI) blocking library types

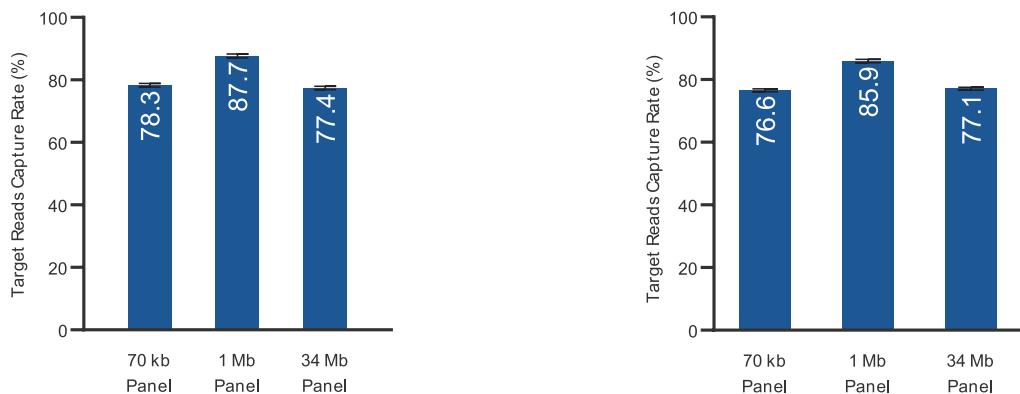
Single-end Index



Figure 2. TargetSeq® Universal Blocking Oligo (for MGI SI) blocking library types

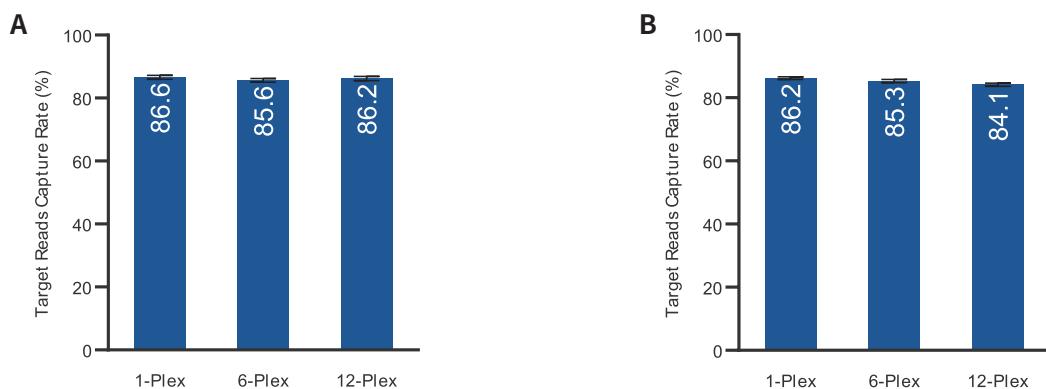
## Data

① TargetSeq® Universal Blocking Oligo (for MGI) in Panels with different size, presenting a stable blocking effect.



**Figure 3. TargetSeq® Universal Blocking Oligo (for MGI) blocking effect for Panels with different size.** A:TargetSeq® Universal Blocking Oligo (for MGI DI), B:TargetSeq® Universal Blocking Oligo (for MGI SI). The experiment sample is gDNA, adopting IGT® Enzyme Plus Library Prep Kit for library prep, matching separately with IGT® Adapter & UDI Primer (for MGI) and IGT® Adapter & Single-Indexed Primer (for MGI), capture & enrich with Panels of 70 kb, 1 Mb and 34 Mb. Sequencing on MGISEQ-2000 with PE150.

② TargetSeq® Universal Blocking Oligo (for MGI) presents excellent blocking effect for different hybrid plans.



**Figure 4. TargetSeq® Universal Blocking Oligo (for MGI) capture efficiency for different hybrid plans.** A:TargetSeq® Universal Blocking Oligo (for MGI DI), B:TargetSeq® Universal Blocking Oligo (for MGI SI). The experiment sample is gDNA, the input for a single library is 500 ng, separately perform hybrid plans of 1-Plex(500 ng)、6-Plex(3  $\mu$ g) and 12-Plex(6  $\mu$ g), choose 1 Mb Panel for hybrid capture, and sequencing on MGISEQ-2000 with PE150.

## Product Information

Product Name	Catalog	Spec.	Catalog #
TargetSeq® Universal Blocking Oligo (for MGI DI)	Standard paired-end Index Library universal blocking sequence on MGI can block libraries within 6 $\mu$ g	16 rxn/96 rxn	C80521/C80522
TargetSeq® Eco Universal Blocking Oligo (for MGI DI)	ECO paired-end Index Library universal blocking sequence on MGI can block libraries within 3 $\mu$ g	16 rxn/96 rxn	C80531/C80532
TargetSeq® Eco Universal Blocking Oligo (for MGI SI)	ECO single-end Index Library universal blocking sequence on MGI can block libraries within 3 $\mu$ g	16 rxn/96 rxn	C80541/C80542

Official Wechat



Website:www.igenetech.com Email:sales@igenetech.com TEL:010-89146623

Headquarter: Room 701, 7th Floor, Building 1, No.1 Chaoqian Rd, Science and Technology Park, Changping District, Beijing, China

Jiaxing subsidiary: Building 2, No.371 Hongye Rd, Dayun Town, Jiashan County, Jiaxing City, Zhejiang Province, China

For research only, not for clinical diagnosis.

Copyright: This manual is copyrighted by iGeneTech Bioscience (Beijing) Co., Ltd. and its subsidiaries. Without the written permission of the Company, no other individual or organization may produce, copy, edit or translate the contents of this manual in any form. All trademarks or logos in this manual are the property of iGeneTech Bioscience (Beijing) Co., Ltd., its subsidiaries and their respective owners.

Document NO.: PMM220808