

More sequencing options for linear library users

The MGIEasy Universal Library Conversion Kit (App-A) Library Compatibility Workflow adapts linear libraries prepared with third-party kits for sequencing on the MGI DNBSEQ™ System. Thereby enabling you to compare or continue your existing workflow on the DNBSEQ™ sequencing platforms.

Compatible Third-party Kits Information

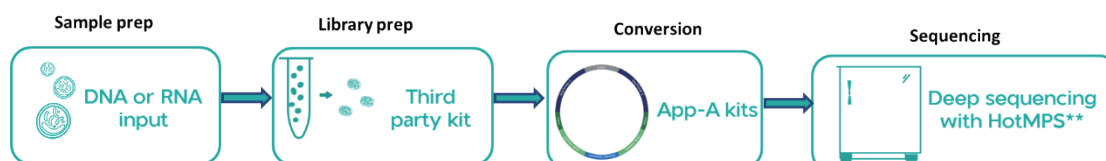
The following table lists third-party library prep kits which have been shown to be compatible with the MGI HotMPS* App-A Workflow.

Table 1: List of third-party kits compatible with HotMPS*

| VENDOR | WORKFLOW | CATALOG | APPLICATION | SEQUENCING PLATFORM |
|------------------|--|-------------|-------------|------------------------------|
| NEB | NEBNext® Ultra™ II FS DNA Library Prep Kit, 24 reactions | E7805S | WGS | DNBSEQ-G400** |
| TWIST BIOSCIENCE | Library Preparation EF 2.0 with Enzymatic Fragmentation and Twist Universal Adapter System | 104206 | WGS | DNBSEQ-G400** |
| TWIST BIOSCIENCE | Twist Exome 2.0, 12 Reactions | 104134 | WES | DNBSEQ-G400** DNBSEQ-T7** |
| Roche | KAPA EvoPlus Kit, 96 rxn | 9420053001 | WES | DNBSEQ-G400** DNBSEQ-T7** |
| Roche | KAPA HyperCapture Reagent Kit, 24 reactions | 09075810001 | WES | DNBSEQ-G400** |
| Lexogen | QuantSeq 3' mRNA-Seq Library Prep Kit (FWD), 24 preps | 015.24 | RNA-seq | DNBSEQ-G400** DNBSEQ-T7** |
| IDT | xGen™ Exome Hyb Panel v2, 4 rxn | 10005151 | WES | DNBSEQ-T7** |
| Aglient | SSELXT Human All Exon V8, 16 Rxns | 5191-6879 | WES | DNBSEQ-G400** DNBSEQ-T7** |

Note: This table only shows the third party libraries validated by MGI or our collaborators till now. For more third party libraries compatibility validation outside this table, please feel free to contact us.

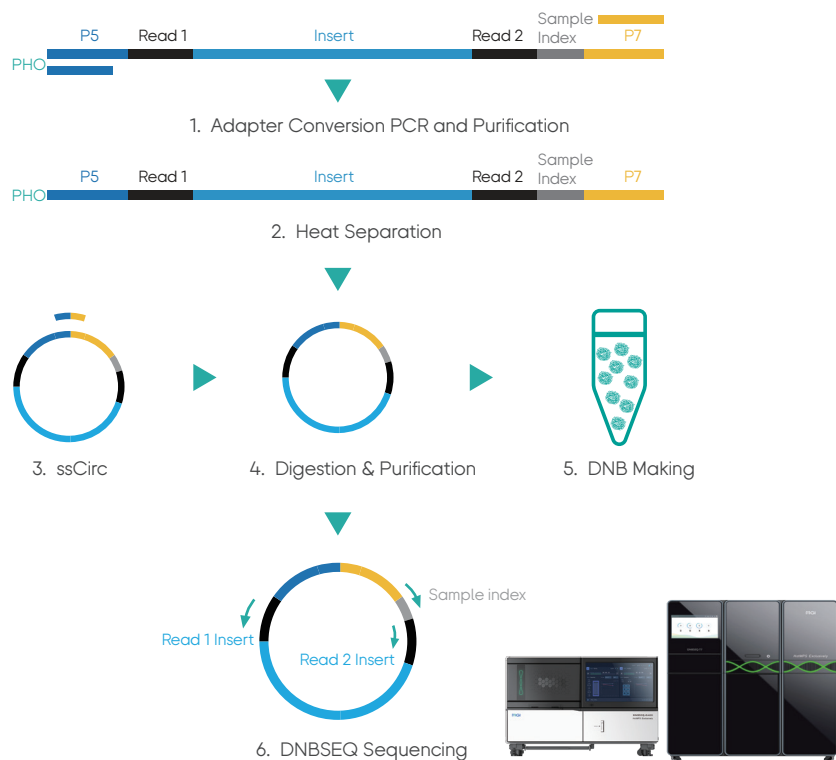
Efficient and Streamlined Workflow



How it works

Library adapter conversion

The library products constructed by third-party library preparation kits are generally linear double-stranded DNA, and the library conversion kit (MGIEasy Universal Library Conversion Kit (App-A), PN: 1000004155) is used to convert the linear dsDNA library into a single-stranded circular DNA library compatible with the MGI sequencing platform. All the conversion and make DNB producer can be automated by MGISP100 and MGISP-960. The conversion principle showed as below.



Sequencing primer replacement

According to the library type, select the appropriate App-A/C/D series sequencing primer kit. Follow the user manuals to directly replace the sequencing primers in the MGI high-throughput sequencing kit, then the converted library can be sequenced on the MGI platform.

Ordering information

| Product Name | Catalog No. | Platform |
|--|-------------|---------------------------|
| MGIEasy Universal Library Conversion Kit (App-A) | 1000004155 | DNBSEQ-G400**/DNBSEQ-T7** |
| High-Throughput Single-End Sequencing Primer Kit (App-A) | 1000020835 | DNBSEQ-G400**/DNBSEQ-T7** |
| High-Throughput Pair-End Sequencing Primer Kit (App-A) | 1000020832 | DNBSEQ-G400**/DNBSEQ-T7** |
| High-Throughput Barcode Primer 3 Reagent Kit (App-A) | 1000014047 | DNBSEQ-G400**/DNBSEQ-T7** |
| High-Throughput Sequencing Primer Kit (App-C) | 1000027472 | DNBSEQ-G400** |
| High-Throughput Sequencing Primer Kit (App-D) | 1000028550 | DNBSEQ-T7** |

* This sequencing reagent is only available in selected countries.

** This sequencer is only available in selected countries, and its software has been specially configured to be used in conjunction with MGI's HotMPS sequencing reagents exclusively.

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