

Discover our products and solutions

# NGS Library Preparation Solutions

**Unlock Performance!**

**Your Sequencing, Our Commitment!**

Our expertly crafted NGS library preparation solutions—including kits, and related enzyme raw materials—ensure high-quality, reliable sequencing results.

Optimize your workflow and achieve consistent performance every time.

**We Aim for Your Success.**

[www.genaxxon.com](http://www.genaxxon.com)

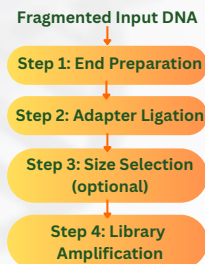
# Genaxxon's NGS Lib Prep Solutions

## DNA Library Preparation

### Ultrasonic fragmentation

#### DNA Library Prep Kit for Illumina (Cat# M4400)

Genaxxon's DNA Library Prep Kit for Illumina is a universal solution for generating high-quality libraries for next-generation sequencing. Designed for fragmented DNA inputs ranging from 1 ng to 1 µg, it ensures efficient and reliable conversion into sequencing-ready libraries. Based on ultrasonic fragmentation, this kit provides highly reproducible results while preserving DNA integrity. Whether working with standard DNA, low-quality FFPE, or cDNA samples, it delivers exceptional performance across a wide range of sequencing applications.



#### Key Benefits:

- **Wide Compatibility** – Suitable for FFPE, cDNA, and standard DNA samples
- **High Efficiency** – Superior library conversion rates for maximum yield
- **Accurate Detection** – Enables precise identification of low-frequency mutations
- **Optimized Workflow** – Seamless four-step process in approx. 3 hours, minimizing handling errors

| Cat# | Package Size |
|------|--------------|
|------|--------------|

|            |              |
|------------|--------------|
| M4400.0024 | 24 reactions |
|------------|--------------|

|            |              |
|------------|--------------|
| M4400.0096 | 96 reactions |
|------------|--------------|

### Enzymatic fragmentation

#### DNA Library Prep Kit PLUS for Illumina (Cat# M4401)

Genaxxon's DNA Library Prep Kit PLUS is an advanced solution designed to enhance your sequencing workflow on Illumina high-throughput platforms. Utilizing enzymatic fragmentation, this kit integrates DNA fragmentation, end repair, and dA-tailing into a single step, significantly simplifying library preparation. The streamlined workflow eliminates unnecessary purification steps, allowing adapter ligation, library amplification, and size selection to be performed directly. With a total processing time of just 2 hours, this kit ensures efficiency without compromising quality.



#### Key Benefits:

- **Efficient Workflow** – Fragmentation, end repair, and dA-tailing in a single step
- **Versatile Insert Sizes** – Adjustable fragmentation time for optimized insert size with minimal chimeras
- **Broad Compatibility** – Suitable for diverse DNA sources, including FFPE samples, with strict bacterial background control
- **Optimized Performance** – Reduced false positives, improved sequencing yield, and ideal for PCR-free library construction

| Cat# | Package Size |
|------|--------------|
|------|--------------|

|            |              |
|------------|--------------|
| M4401.0024 | 24 reactions |
|------------|--------------|

|            |              |
|------------|--------------|
| M4401.0096 | 96 reactions |
|------------|--------------|

## Looking for More?

We also offer compatible UDI adapters and NGS Library Quantification Assay Kits for Qubit.

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# Genaxxon's NGS Lib Prep Solutions

## RNA Library Preparation

### FAST RNA-seq Library Preparation Kit (Cat# M4408)

Genaxxon's FAST RNA-seq Library Preparation Kit is a fast, all-in-one solution for preparing RNA sequencing libraries with ease. Optimized for eukaryotic total RNA or purified mRNA from animals, plants, and fungi, this kit supports RNA input amounts ranging from 10 ng to 1000 ng. With compatibility for both MGI and Illumina high-throughput sequencing platforms, it ensures high-quality library preparation with minimal effort and maximum flexibility. The workflow is designed to reduce preparation time from 7 hours to just 3 hours, offering unmatched speed without compromising quality.



#### Key Benefits:

- **Wide Compatibility** – Works with total RNA and purified mRNA from diverse eukaryotic organisms (animals, plants, fungi)
- **Flexible Input Range** – Supports RNA inputs from 10 ng to 1000 ng for versatile experimental setups
- **Streamlined Efficiency** – Combines cDNA synthesis, dsDNA end repair, and dA-tailing into a single step
- **Platform Versatility** – Fully compatible with both MGI and Illumina sequencing platforms
- **Buffer Options** – Available in both strand-specific and non-strand-specific formats to fit your experimental needs

| Cat#       | Package Size |
|------------|--------------|
| M4408.0024 | 24 reactions |
| M4408.0096 | 96 reactions |

### Poly(A) mRNA Capture Module (Cat# M4411)

Reliable and efficient solution for isolating poly(A) RNA from purified total RNA samples. This capture method is based on the strong binding between the poly(A) tail of mRNA and the Oligo d(T) sequence on magnetic microspheres. With a streamlined protocol, the entire capture process is completed in under 1 hour, making it perfect for fast and precise RNA isolation.

| Cat#       | Package Size |
|------------|--------------|
| M4411.0024 | 24 reactions |
| M4411.0096 | 96 reactions |

### rRNA Depletion Module (H/M/R) (Cat# M4412)

Efficient solution for removing ribosomal RNA (rRNA) from total RNA samples, particularly tailored for prokaryotic RNA. It reduces rRNA interference, improving the quality of RNA for applications like sequencing and transcriptome analysis.

| Cat#       | Package Size |
|------------|--------------|
| M4412.0024 | 24 reactions |
| M4412.0096 | 96 reactions |

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# Genaxxon's NGS Lib Prep Solutions

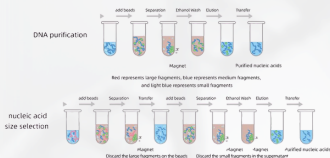
## NGS - Additional Products

### NGS DNA Purification MagBeads (Cat# S5352)

Genaxxon's NGS DNA Purification MagBeads offer a SPRI-based solution for simplified nucleic acid size selection and PCR purification during DNA and RNA library preparation for Next-Generation Sequencing. Compatible with most NGS library prep kits, these beads replace competitor products (e.g., AMPure XP Beads) without sacrificing performance.

#### Key Benefits:

- **SPRI-Based Chemistry** – Optimized for efficient DNA purification and size selection during NGS library preparation
- **Wide Compatibility** – Works seamlessly with most NGS library construction kits for DNA and RNA
- **Easy Replacement** – Can replace competitor beads with no loss of efficiency
- **Versatile Protocol** – Compatible with liquid handling workstations (Beckman, Hamilton, Tecan, etc.) or can be used manually
- **Maximum Efficiency** – High-quality purification with minimal costs



#### Cat#

#### Package Size

S5352.0005

5 mL

S5352.0060

60 mL

### NGSclone PCR MasterMix (2X) (Cat# M3139)

Genaxxon's NGSclone PCR Mastermix (2x) provides high-fidelity PCR amplification with unmatched accuracy and efficiency. Featuring advanced hot-start technology and an optimized DNA polymerase, this ready-to-use master mix is perfect for a wide range of templates, including GC-rich samples. It includes all essential components, simplifying your PCR workflow for reliable results with minimal preparation.

#### Key Benefits:

- **Superior Fidelity and Processivity** – Powered by novel DNA polymerase for 100x greater fidelity than standard Taq polymerases, ensuring precise amplifications. Enhanced extension speed and 3'-5' exonuclease activity ensure robust results.
- **Advanced Hot-Start Technology** – The antibody-mediated hot-start function prevents non-specific amplification, improving specificity and consistency.
- **Versatile Performance** – Works well with a variety of templates, including animal, plant, and cDNA, and excels with GC-rich samples.
- **Convenience and Ease-of-Use** – Ready-to-use formula that includes all components; just add primers and DNA to start your PCR.

#### Cat#

#### Package Size

M3139.0080

1 mL

M3139.0400

5 x 1 mL



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