

Ordering Information

DNA KITS				
	NEB #	SIZE		
DNA	NEBNext Ultra II FS DNA Library Prep Kit for Illumina	E7805S/L	24/96 reactions	
	NEBNext Ultra II FS DNA Library Prep with Sample Purification Beads	E6177S/L	24/96 reactions	
	NEBNext Ultra II DNA Library Prep Kit for Illumina	E7645S/L	24/96 reactions	
	NEBNext Ultra II DNA Library Prep with Sample Purification Beads	E7103S/L	24/96 reactions	
	NEBNext Ultra II DNA PCR-free Library Prep Kit for Illumina	E7410S/L	24/96 reactions	
	NEBNext Ultra II DNA PCR-free Library Prep with Sample Purification Beads	E7415S/L	24/96 reactions	
	NEBNext Ultra II FS DNA PCR-free Library Prep Kit for Illumina	E7430S/L	24/96 reactions	
	NEBNext Ultra II FS DNA PCR-free Library Prep with Sample Purification Beads	E7435S/L	24/96 reactions	
	NEBNext Enzymatic Methyl-seq Kit	E7120S/L	24/96 reactions	
RNA KITS				
	NEB #	SIZE		
Directional RNA	NEBNext Ultra II Directional RNA Library Prep Kit for Illumina	E7760S/L	24/96 reactions	
	NEBNext Ultra II Directional RNA Library Prep with Sample Purification Beads	E7765S/L	24/96 reactions	
Non-directional RNA	NEBNext Ultra II RNA Library Prep Kit for Illumina	E7770S/L	24/96 reactions	
	NEBNext Ultra II RNA Library Prep with Sample Purification Beads	E7775S/L	24/96 reactions	
Single Cell	NEBNext Single Cell/Low Input RNA Library Prep Kit for Illumina	E6420S/L	24/96 reactions	
MODULES & ENZYMES				
	NEB #	SIZE		
DNA	NEBNext Enzymatic Methyl-seq Conversion Module	E7125S/L	24/96 reactions	
	NEBNext Ultra II End Repair/DA-Tailing Module	E7546S/L	24/96 reactions	
	NEBNext Ultra II Ligation Module	E7595S/L	24/96 reactions	
	NEBNext Ultra II FS DNA Module	E7810S/L	24/96 reactions	
RNA	NEBNext Single Cell Lysis Module	E6530S	96 reactions	
	NEBNext Magnesium RNA Fragmentation Module	E6150S	200 reactions	
	NEBNext Ultra II RNA First Strand Synthesis Module	E7771S/L	24/96 reactions	
	NEBNext Ultra II Directional RNA Second Strand Synthesis Module	E7550S/L	24/96 reactions	
	NEBNext Ultra II Non-directional RNA Second Strand Synthesis Module	E6111S/L	20/100 reactions	
	NEBNext Single Cell/Low Input cDNA Synthesis and Amplification Module	E6421S/L	24/96 reactions	
Amplification	NEBNext Ultra II Q5 Master Mix	M0544S/L	50/250 reactions	
	NEBNext Q5U Master Mix	M0597S/L	50/250 reactions	
COMPANION PRODUCTS				
	NEB #	SIZE		
Oligos	NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs)	E6440S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 2)	E6442S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 3)	E6444S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 4)	E6446S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (96 Unique Dual Index Primer Pairs Set 5)	E6448S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors DNA Set 1)	E7395S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Illumina (Unique Dual Index UMI Adaptors RNA Set 1)	E7416S/L	96/384 reactions	
	NEBNext Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs)	E7140S/L	24/96 reactions	
	NEBNext Multiplex Oligos for Illumina (Dual Index Primers Set 1)	E7600S	96 reactions	
	NEBNext Multiplex Oligos for Illumina (Dual Index Primers Set 2)	E7780S	96 reactions	
	NEBNext Multiplex Oligos for Illumina (Index Primers Set 1)	E7335S/L	24/96 reactions	
	NEBNext Multiplex Oligos for Illumina (Index Primers Set 2)	E7500S/L	24/96 reactions	
	NEBNext Multiplex Oligos for Illumina (Index Primers Set 3)	E7710S/L	24/96 reactions	
	NEBNext Multiplex Oligos for Illumina (Index Primers Set 4)	E7730S/L	24/96 reactions	
	NEBNext Multiplex Oligos for Illumina (96 Index Primers)	E6609S/L	96/384 reactions	
	RNA Depletion	NEBNext rRNA Depletion Kit v2 (Human/Mouse/Rat)	E7400S/L/X	6/24/96 reactions
		NEBNext rRNA Depletion Kit v2 (Human/Mouse/Rat) with RNA Sample Purification Beads	E7405S/L/X	6/24/96 reactions
		NEBNext Globin & rRNA Depletion Kit (Human/Mouse/Rat)	E7750S/L/X	6/24/96 reactions
NEBNext Globin & rRNA Depletion Kit (Human/Mouse/Rat) with RNA Sample Purification Beads		E7755S/L/X	6/24/96 reactions	
NEBNext rRNA Depletion Kit (Bacteria)		E7850S/L/X	6/24/96 reactions	
NEBNext rRNA Depletion Kit (Bacteria) with RNA Sample Purification Beads		E7860S/L/X	6/24/96 reactions	
FFPE DNA	NEBNext FFPE DNA Repair v2 Module	E7360S/L	24/96 reactions	

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Featured Tools



Download the **NEB AR App** for iPhone®, iPad® or Android™. Scan the augmented reality butterfly icon located on the corner of the page to find videos, tutorials and immersive experiences.

ATCC NEBNext® Selector v1.0

For help with choosing the best reagents for your next generation sequencing sample preparation, try our NEBNext selector at NEBNextselector.neb.com.

Now includes
NEBNext Ultra™ II DNA & FS DNA PCR-free Library Prep

NEBNext® Ultra™ II Reagents & Kits

THE CORE OF YOUR NGS LIBRARY PREP



be INSPIRED
drive DISCOVERY
stay GENUINE

The heart of the matter

As sequencing technologies improve and applications expand, the need for compatibility with ever-decreasing input amounts and sub-optimal sample quality grows. Scientists must balance reliability and performance with faster turnaround, higher throughput and automation compatibility.

The NEBNext Ultra II workflow lies at the heart of NEB's portfolio for next generation sequencing library preparation. NEBNext Ultra II kits and modules for Illumina® are the perfect combination of reagents, optimized formulations and simplified workflows, enabling you to create DNA or RNA libraries of highest quality and yield, even when starting from extremely low input amounts.

The Ultra II workflow is central to many of our NEBNext solutions, including:

- Ultra II DNA & FS DNA Library Prep, with PCR-free workflow options
- Enzymatic Methyl-seq
- Ultra II RNA & Directional RNA Library Prep
- Single Cell/Low Input RNA Library Prep
- Module products for each step in the workflow

The NEBNext Ultra II Workflow:



Advantages of the Ultra II Workflow:

- Learn one central workflow and apply it to a suite of different applications
- Save time with streamlined, modular workflows, reduced hands-on time, and automation compatibility
- Benefit from low input amount requirements, fewer PCR cycles and uniform GC-coverage in all applications

What users are saying:

"We've been testing EM-seq on a variety of inputs, platforms, and samples, and it shows more even coverage across CpG islands, the whole genome, and also greater detection of CpG sites across the genome vs. WGBS."

— Christopher Mason,
Weill Cornell Medical School
New York

"NEBNext Ultra II FS performance is exceptional. The possibility to start with higher DNA concentrations allows for less consumption of reagents for initial QC. Obtaining the desired fragment length and less hands-on time are also key factors when preparing genomic libraries and NEBNext Ultra II FS can provide that. The use of fewer PCR cycles also decreases the bias associated with the PCR step."

— João Anes, Ph.D.,
NGS specialist in Food Safety, UCD-Centre for Food
Safety, Dublin, Ireland

The NEBNext Ultra II Workflow

The Ultra II workflow is available in a convenient kit format, or as separate modules – it is easily scalable and automated on a range of liquid handling instruments. The NEBNext Ultra II workflow has been cited in thousands of publications, as well as a growing number of preprints and protocols related to COVID-19. Citation information and extensive performance data for each product is available on www.neb.com.

Choose the convenient

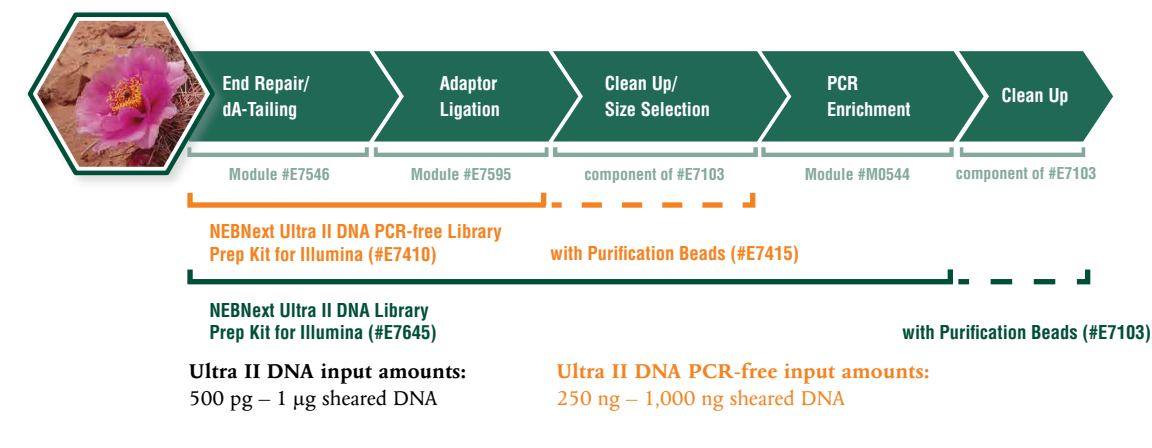
NEBNext Ultra II DNA Library Prep Kit for:

- Whole Genome Sequencing
- Standard & Low Input Sequencing
- ChIP-seq, NICE-seq, Cut&Run-seq
- Exome Capture
- Targeted Sequencing
- FFPE Material
- cfDNA

Features

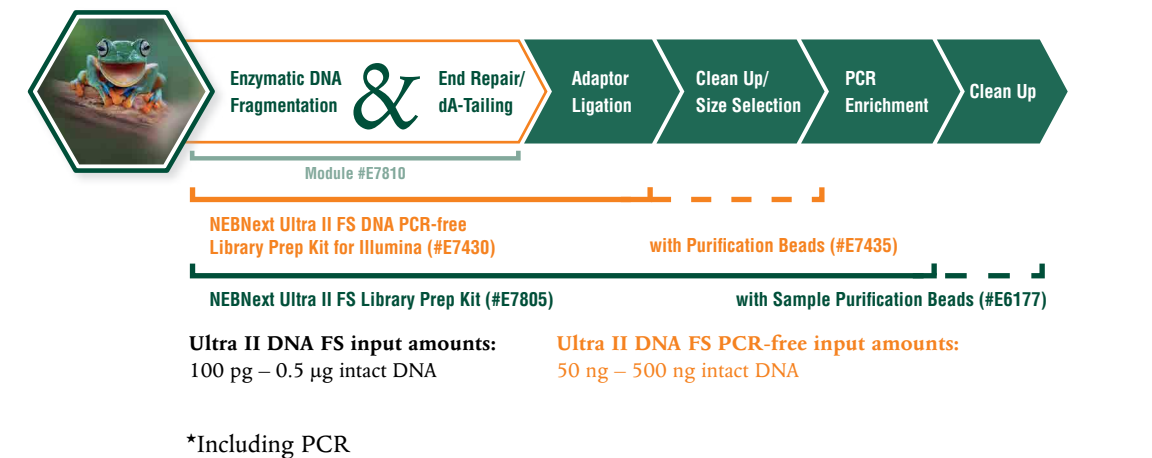
- Highest library yields and quality
- Fewer PCR cycles, including PCR-free options
- Broad input range (500 pg to 1 µg sheared DNA)
- Less than 15 minutes of hands-on time
- Workflow complete in ~2:30 – 3:00 hours, including PCR

The Ultra II DNA Workflow is Available in Convenient Kit Formats or Modules:



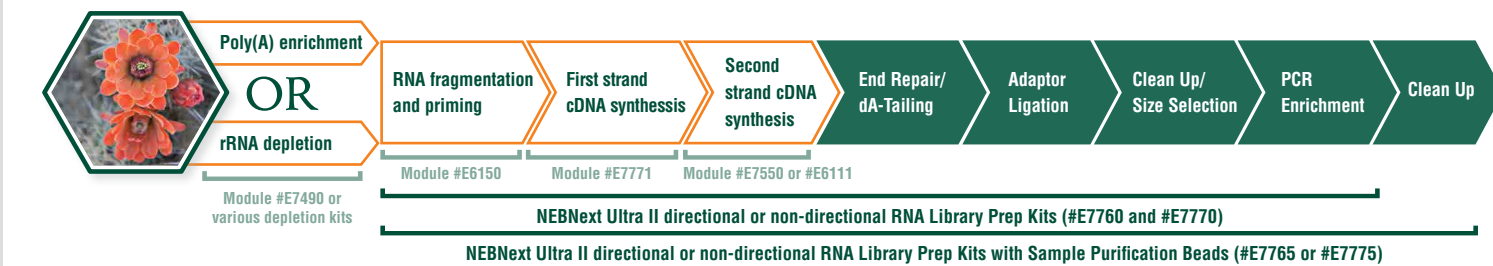
- Hands on time:* <15 minutes
- Total time:* ~2:30 – 3:00 hrs

NEBNext Ultra II FS DNA Library Prep Workflow:



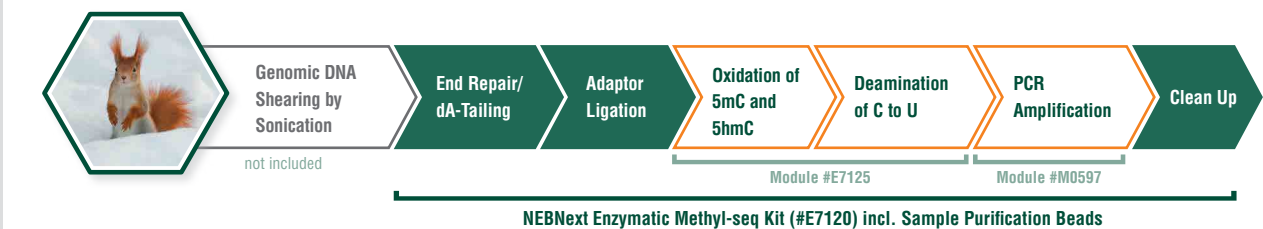
- Hands on time:* <15 minutes
- Total time:* ~2:30

NEBNext Ultra II Directional RNA or Non-directional RNA Workflow:



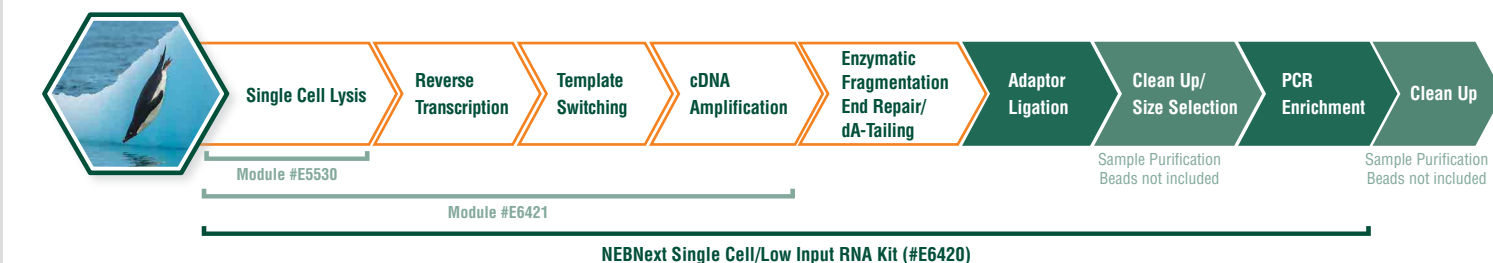
- Ultra II RNA input amounts:**
10 ng – 1 µg total RNA (rRNA depletion)
10 ng – 1 µg total RNA (poly(A) mRNA)
- Hands on time: <30 minutes
 - Total time: ~ 5:30 – 6:30 hrs

NEBNext Enzymatic Methyl-seq Workflow:



- EM-seq input amounts:** 10 ng – 200 ng
- Total time: 6 hrs – 7 hrs

NEBNext Single Cell/Low Input RNA Workflow:



- Single Cell/Low Input RNA input amounts:** 2 pg – 200 ng total RNA
- Hands on time: <30 minutes
 - Total time: 6 hrs – 7 hrs

The Ultra II DNA Workflow is the Core of:

Enzymatic DNA Fragmentation Library Prep



You'll be thrilled to pieces.

Directional & Non-directional RNA-seq



Even more *from less* – now for RNA.

Enzymatic Methyl-seq (bisulfite-free)



Heads up!

Single Cell/Low Input RNA Library Prep



How low can you go?