

**High Quality In
High Quality Out**

NGSeq 16S V3/V4

**Amplicon PCR for 16S library preparation
For Illumina® MiSeq system**



Key Features

- ✓ 16S metagenomic sequencing
- ✓ For Illumina® MiSeq system
- ✓ Free of microbial DNA contaminations
- ✓ Highly sensitive amplification
- ✓ Up to 40 cycles
- ✓ Highly active hot start Taq polymerase

16S Amplicon PCR

The **NGSeq 16S V3/V4** is an ultra-clean master mix for the sensitive amplification of eubacterial DNA including universal primers targeting the V3/V4 hyper-variable region of the 16S rRNA gene. The primers are designed with overhang adaptor sequences suitable for the library preparation for 16S metagenomic sequencing with the Illumina® MiSeq system¹.

16S Amplicon PCR Reverse Primer

5'-GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGACTACHVGGGTATCTAATCC-5'



5'-TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGCCTACGGGNGGCWGCAG

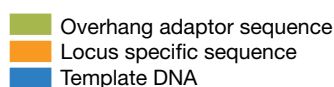


Fig. 1: Schematic drawing of 16S Amplicon PCR using NGSeq 16S V3/V4

The **NGSeq 16S V3/V4** includes everything necessary to quickly perform the Amplicon PCR (1st stage¹) of the 16S library preparation protocol. The absence of microbial contaminations and the use of highly active hot start Taq polymerase allow up to 40 PCR cycles for a higher and more sensitive amplification and therefore a better sequencing performance.

¹ 16S Metagenomic Sequencing Library Preparation; Part # 15044223 Rev.B; https://support.illumina.com/documents/documentation/chemistry_documentation/16s/16s-metagenomic-library-prep-guide-15044223-b.pdf

Product	Application	Content	Order Number
NGSeq 16S V3/V4	Master mix for preparation of 16S rRNA gene amplicons for Illumina® MiSeq system	100 reactions	S-120-0100
		250 reactions	S-120-0250
		1000 reactions	S-120-1000

Related Products

MolYsis™ & Ultra-Deep Microbiome Prep Kits

Collection of manual and automated kits for the selective enrichment of microbial DNA through degradation of host DNA for increased sensitivity in metagenomic analyses. All components are free of contaminating DNA and validated for a wide range of liquid specimens and tissues.

DNA-Free Water

High quality microbial **DNA-free water** ideally suited for molecular microbiology applications and as negative control.

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