

Product Information	
sparQ DNA Library Prep Kits	
Part Number	95191-024
Number of Reactions	24 Reactions
Storage Temperature	-25°C to -15°C
Lot Number	66153845
Reference Number	100319, 071819, 68082319, 110119, 020419, 275754821
Expiration Date	02/28/2021

**Product Description:**

The sparQ DNA Library Prep Kit provides components for the rapid construction of DNA libraries from fragmented double-stranded DNA for sequencing on Illumina® NGS platforms. The streamlined workflow can be completed in under 3 hours with minimal hands-on time. The DNA polishing reactions are combined in a single step to convert fragmented DNA into 5'-phosphorylated and 3'-dA-tailed DNA fragments suitable for direct ligation of sequencing adapters without the need for an intervening cleanup. The 2X HiFi PCR Master Mix and Primer Mix allow the optional, unbiased amplification of fragments with appropriate adapters ligated to both ends. The kit is compatible with multiple sample types and facilitates efficient and consistent library construction from a wide range of input amounts from 0.25 ng to 1000 ng DNA.

**Components:**

- 84514 DNA Polishing Enzyme Mix, 0.240mL
- 84516 DNA Polishing Buffer, 0.120mL
- 84518 DNA Ligase, 0.240mL
- 84520 DNA Ligation Buffer, 0.480mL
- 84522 HiFi PCR Master Mix (2X), 0.600mL
- 84524 Primer Mix, 0.072mL

Product Specifications	
95191	
Assay	Library Functional Assay
Specification	Functional

**Quality Control Analysis and Specifications:**

**Library Prep Functional Assay:** Quality of the sparQ DNA Library Prep Kit is tested functionally by preparation of a DNA library from bacterial genomic DNA with GC-content of 10-80%. The differences in library yield and profile among different lots must be within 15%. Sequencing of the amplified library must yield mapped reads >90% and normalized coverage between 0.7 and 1.3 across the full GC spectrum.

Enzyme components were tested prior to assembly and free of contaminating endonucleases and exonucleases. Enzyme purity was >95% as determined by SDS-PAGE and negligible *E. coli* genomic DNA contamination was confirmed by qPCR.

**Limited Label Licenses**

Use of this product signifies the agreement of any purchaser or user of the product to the following terms:

1. The product may be used solely in accordance with the protocols provided with the product and this manual and for use with components contained in the kit only. QIAGEN Beverly, Inc. grants no license under any of its intellectual property to use or incorporate the enclosed components of this kit with any components not included within this kit except as described in the protocols provided with the product, this manual, and additional protocols available at [www.quantabio.com](http://www.quantabio.com). Some of these additional protocols have been provided by Quantabio Product users for Quantabio users. These protocols have not been thoroughly tested or optimized by QIAGEN Beverly, Inc. QIAGEN Beverly, Inc. neither guarantees them nor warrants that they do not infringe the rights of third-parties.
2. Other than expressly stated licenses, QIAGEN Beverly, Inc. makes no warranty that this kit and/or its use(s) do not infringe the rights of third-parties.
3. This kit and its components are licensed for one-time use and may not be reused, refurbished, or resold.
4. QIAGEN Beverly, Inc. specifically disclaims any other licenses, expressed or implied other than those expressly stated.
5. The purchaser and user of the kit agree not to take or permit anyone else to take any steps that could lead to or facilitate any acts prohibited above. QIAGEN Beverly, Inc. may enforce the prohibitions of this Limited License Agreement in any Court, and shall recover all its investigative and Court costs, including attorney fees, in any action to enforce this Limited License Agreement or any of its intellectual property rights relating to the kit and/or its components.

Oligonucleotide sequences ©2007 – 2013 Illumina, Inc. All rights reserved.

**Limitations of Use**

Quantabio is a registered trademark of QIAGEN Beverly, Inc. Please contact QIAGEN Beverly, Inc. for more information.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

Quantabio products are manufactured by QIAGEN Beverly, Inc.

100 Cummings Center, Suite 407J, Beverly, MA 01915 • Ph (888) 927-7027 • Fax (978) 867-5724 • [www.quantabio.com](http://www.quantabio.com) FMWIO16.2 Rev 01