

# NGS on!<sup>®</sup> Whole Exome



Maximum coverage  
of clinically significant  
target genes

**NGS on!<sup>®</sup> WES is a next-generation sequencing (NGS)-based kit designed to analyze the exonic regions of the human genome (whole exome), covering a total of 37.64 Mb.**

It uses genomic DNA extracted from whole blood or buccal swabs and includes all the necessary reagents for the preparation of DNA libraries enriched in exonic regions, optimized for use on Illumina and other compatible NGS sequencing platforms.

# NGS on!<sup>®</sup> Whole Exome

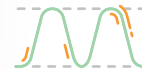
## About NGS on!<sup>®</sup> Whole Exome kit

- **37.64 Mb of target size**, encompassing both protein-coding and clinically relevant non-coding regions.
- Clinically relevant genomic information targeting approximately **22,000 genes**.
- Includes clinically relevant intronic regions with the great majority of pathogenic and likely pathogenic variants from ClinVar. Features pharmacogenetic SNPs and provides **comprehensive coverage of complex genes** (e.g., TERT promotor, TP53, CFTR, etc.).
- Top-tier performance with **greater uniformity and deeper on-target coverage**. Optimization of the return on sequencing cost.
- **Processing in batches of 8 samples**: this setup standardizes the workflow, simplifies the protocol, minimizes manual variability, and enhances reproducibility.



### Top-tier performance

>93% of targeted regions covered at >20x with ~7.5 Gb (PE 2X150)



### Coverage uniformity

Fold 80 ≤ 1.5



### Accuracy

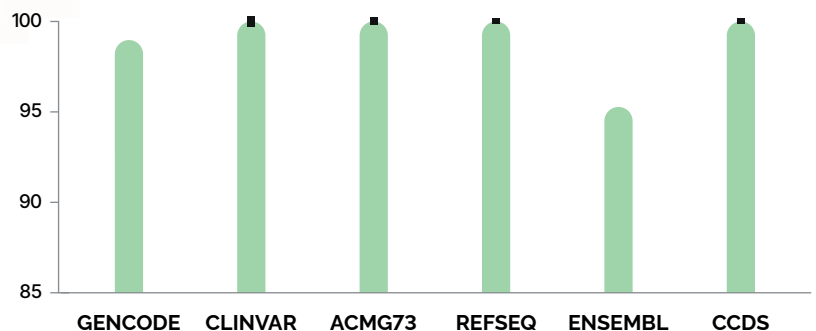
On target rate ~ 80-85%



### Sequencing cost

PCR duplicate rate < 5%

## Enhanced coverage of content across major databases and gene lists



## Product Information

DESCRIPTION:  
NGS on!<sup>®</sup> Whole  
Exome 16 test

REFERENCE:  
Code: AA1779/16

RUO, for Research Use Only



## Workflow



**1**  
Nucleic  
acid extraction



**2**  
Library  
preparation



**3**  
Sequencing  
and analysis



Blackhills Diagnostic  
Resources SLU  
[bdrdiagnostics.com](http://bdrdiagnostics.com)



EXCLUSIVE DISTRIBUTOR  
Nuclear Laser Medicine srl

Viale delle Industrie, 3 - 20049 Settala (Milan), ITALY  
Phone +39 02 952451 - Fax +39 02 95245237-8

VAT 08763060152

segreteria@nlm.it - [www.nlm.it](http://www.nlm.it)