ClinEx pro

For the analysis of the clinical exome

CE IVD

ClinEx pro

ClinEx pro is Allowed for the identification of molecular causes in subjects suffering from conditions not attributable to known pathologies, in subjects affected by genetically heterogeneous diseases and complex syndromic pictures.

ClinEx pro is a kit for the analysis of 26000 references, comprising OMIM genes, CCDS related at least 1 time to diseases, alternative transcripts, through a molecular protocol based on Next Generation Sequencing (NGS) technologies.

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The kit is validated for germline analysis (SNPs, indels, CNVs) of DNA extracted from blood or body tissues samples.

ClinEx pro kit contains all reagents required for the preparation of the capture of specifically designed probes and for the NGS analysis using Illumina.

TECHNOLOGY

The ClinEx pro kit is part of a DNA-to-variant solution that offers streamlined content, easy-to-perform library preparation, push-button sequencing systems, and simplified data analysis.

WORKFLOW

Library preparation follows a straightforward, capture-based protocol that can be completed in as little as 36 hours, with < 3 hours hands-on time. Resulting libraries can be normalized, pooled, and then loaded on to a flow cell for sequencing. Prepared libraries are sequenced on any compatible Illumina sequencers.

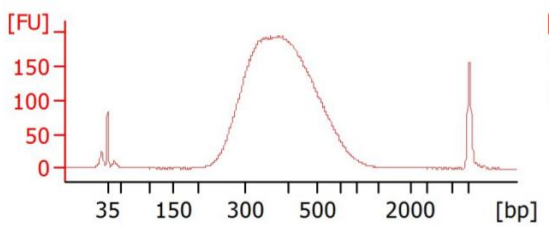

Figure 1. ClinEx pro library Bioanalyzer profile.

ClinEx pro solution

Comprehensive, accurate analysis of clinically significant genes within human whole exome regions

Analyze a wide range of genetic diseases, including inherited disease-related genes

SAMPLE PER RUN

Instrument	Samples per run (300x)	Samples per run (100x)
NextSeq 550 Mid-Output Kit	4	16
NextSeq 550 High-Output Kit	16	48
NovaSeq 6000 SP	32	96
NovaSeq 6000 S1	64	192
NovaSeq 6000 S2	144	384
NovaSeq 6000 S4	384	768

**the suggested number of samples per cartridge / chip has been estimated using Illumina sequencing coverage calculator and assuming 5% of duplicates, 85% of on target and a sequencing length of 300bp. The optimal number of samples must be empirically calculated on the local setup*

Ordering Information

Product	REF
ClinEX pro	C3030-16X (16 test)
ClinEX pro	C3030-96X (96 test)
For Illumina instruments	
UDI Primers Set A (96 test)	7001
UDI Primers Set B (96 test)	7002
UDI Primers Set C (96 test)	7003
UDI Primers Set D (96 test)	7004
UDI Primers Set 16 (16 test)	7005

Attachment

To take a view of the panel genes consult the following attachment:

1.ClinEX_ pro_genes_list