HEREDITARY

Familial Hypercholesterolemia

Devyser FH for NGS

Discover the advantages

- Analyze all genes relevant for diagnosis of Familial Hypercholesterolemia (FH)
- Simplify your laboratory workflow and reduce hands-on time to under 45 minutes
- Detect CNVs in the LDLR gene

Detect all FH mutations

Hereditary Hypercholesterolemia can be caused by mutations in the LDLR, APOB, PCSK9, APOE, STAP1 and LDLRAP1 genes, all of which can be detected with Devyser's FH kit. Raised LDL-cholesterol concentrations can also have a polygenic cause that might explain the variable penetrance of the disease. Devyser's FH kit enables the analysis of nine additional polygenic SNPs influencing the LDL-cholesterol level.

Predict the effects of statin therapy

Statin drugs are highly effective in lowering blood concentrations of LDL-cholesterol, with concomitant reduction in risk of major cardiovascular events. Although statins are generally regarded as safe and well-tolerated, there is an interindividual difference in the response to statin treatment and some users may develop muscle symptoms, myopathy. Devyser FH enables the detection of several SNPs associated with treatment effect and adverse reactions to statin therapy.

Benefits of FH mutation testing

The main benefit of a genetic diagnosis is that cascade testing can be used to identify affected biological relatives of FH index individuals and begin appropriate interventions early.

Designed for routine laboratory use

The Devyser FH kit is easy to implement and a highly cost-effective solution for NGS library preparation. With ready-to-use reagents and a user-friendly workflow, it suits both manual and automated processes.

Analytical software options

Laboratories have a choice of analytical software solutions, locally deployed or cloud-based.

Product Details

The Devyser FH kit enables analysis of sequence variants in human genes implicated in Familial Hypercholesterolemia (FH) and polymorphisms associated with statin treatment effect

For research use only

Assay principle:
Amplicon based targeted library preparation for NGS

Compatible NGS instruments:
Illumina MiSeq®, Illumina MiniSeq®
Contact sales@devyser.com for latest list of compatible instruments.

Article number:

Devyser FH v2
8-A109-24-RUO (24 tests)
8-A109-48-RUO (48 tests)

Devyser Library Clean
8-A204

Procedures covered by assay:

- Targeted library preparation
- Sample indexing/molecular barcoding
- Sample clean-up and pooling
- Data analysis pipelines (optional)

Contact

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DEVYSER FH for NGS

6 Genes covered	12 FH polygenic SNPs
6 SNPs related to statin response	1 PCR mix per sample
100 % Coverage uniformity >30% mean	<290 bp Amplicon sizes
32 kB Total target size	10 ng Input DNA required
<45 Hands-on time in minutes	Illumina® Platform

Devyser. Results for life.

Devyser is specialized in the development, manufacture and sales of diagnostic kits for complex DNA testing. Our products are used to guide targeted cancer therapies, to enable rapid prenatal diagnostics as well as in a wide array of genetic tests. Devyser's product development focuses on simplifying and streamlining complex testing processes to improve throughput, reduce hands-on time and produce accurate and trusted results.

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