

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.

*Devyser. Results for life.*

*We're specialists in diagnostic kits for complex DNA testing within oncology, reproductive health and hereditary diseases. Our products are used to guide targeted cancer therapies, to enable rapid prenatal diagnostics, as well as in a wide array of genetic tests. We have a guiding principle when it comes to developing products that are ideal for routine diagnostics: make the technology simple, reproducible and less prone to user-generated errors. And this is precisely what our customers appreciate about us, which is why routine diagnostic laboratories in more than 50 countries worldwide use our products.*



## Technical specifications

### Intended use:

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

### Assay principle:

Targeted sample library preparation. Standardized sample barcoding and sample pooling for NGS sequencing.

### Compatible NGS instruments:

Illumina NGS instruments

### Article number:

8-A104: Devyser FH

### For research use only

### Procedures covered by assay:

- Targeted library preparation
- Sample indexing/molecular barcoding
- Sample clean-up and pooling

## Contact

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RESULTS FOR LIFE

# DEVYSER FH for NGS

6

Genes covered

2

Number of mixes/sample

9

Additional FH polygenic SNPs

6

SNPs related to statin response

100 %

Coverage uniformity >15% mean

<290 bp

Amplicon sizes

31 kB

Total target size

20 ng

Input DNA required

<45

Hands-on time in minutes

Illumina<sup>®</sup>

Platform