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SOPHiA DDM™ for SureSelect™ Human All Exon V8

Enabling molecular laboratories to maximize the utility of SureSelect™ Human All Exon V8

SOPHiA DDM™ for SureSelect™ Human All Exon V8 is a fully integrated bioinformatic workflow (FASTQ to Report) to streamline your variant interpretation and reporting.

Analytical performance*

Detection of:
- SNVs & Indels in all 22,202 genes of the panel

Full access to analytical output:
- At-a-glance quality display
- Access to source files

	Performance metrics	Observed
Genomic variations		
SNV & Indels	Sensitivity	9.3%-99.48%*
	Precision	98.3%-98.7%*

The pipeline is compatible with the NextSeq 550 sequencers.

One Simple Intuitive Platform: Beyond Analytics

Accelerated assessment and reporting of genomic variants

Dedicated features in SOPHiA DDM™ reduce the complexity of determining the significance of genomic variants and facilitate the intrepretation process, thus reducing turnaround time:
- **GRCh38/hg38 based analytics** – Annotate variants accurately
- **Dual-Variant Preclassificatio**n – Improve assessment of variant pathogenicity with both ACMG scores and SOPHiA GENETICS™ machine learning-based predictions
- **Virtual Panel** – Restrict the interpretation to sub-panels of genes of interest using the HPO or OMIM® browser
- **Cascading Filters** – Apply custom filtering options for quicker screening of relevant variants and save strategies for future analyses
- **Familial Variant Analysis (trio-analysis)** – Identify pathogenic variants considering different modes of inheritance, through a family-based approach

The platform can also provide access to Alamut™ Visual Plus, a full-genome browser that integrates numerous curated genomic and literature databases, guidelines, missense and slicing predictors, thus enabling a deeper variant exploration. After interpretation, you can generate a customizable variant report that includes valuable information to support decision making.

Global support at every step

We offer local support available globally. Our Set Up Program provides assistance with assay set up for fast and worry-free transition to routine testing. All along the usage, our robust support including re-analysis and dedicated bioinformaticians help save time and resources, ensuring fast resolution of workflow disruptions.

Secure data storage

Access to the SOPHiA DDM™ Platform is restricted to registered users only. The SOPHiA DDM™ Platform keeps data safe by applying the highest industrial standards of encryption in compliance with local data security policies.

Access to SOPHiA GENETICS™ community

In the SOPHiA DDM™ Platform, experts from hundreds of healthcare institutions interpret their results and flag the pathogenicity level of variants according to their knowledge and experience. This highly valuable information feeds the variant knowledge base and is anonymously and safely shared among the members of the community.

*Range of % refers to the different comparisons of SureSelect™ Human All Exon v8 with common regions of other Exome panels. Data on file.

For Research Use Only. Not for Use in Diagnostic Procedures.