

# 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	99.3%-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 interpretation process, thus reducing turnaround time:

- GRCh38/hg38 based analytics - Annotate variants accurately
- Dual-Variant Preclassification – Improve assessment of variants pathogenicity based on both ACMG scores and SOPHiA GENETICS 's algorithm-supported 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 **disorder** causing variants considering different modes of inheritance, through a family-based approach

#### 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 and unlimited data storage

The SOPHiA DDM™ platform provides unlimited and unrestricted storage, while keeping data safe by applying the highest industrial standards of encryption in compliance with local data security policies.

#### Access to SOPHiA GENETICS' community

Through the SOPHiA DDM™ platform genomics experts from >1000 healthcare institutions interpret their findings and flag the pathogenicity level of variants. This highly valuable information enriches the variant knowledge base and is safely shared among the members of the community, supporting their decision-making process for research purposes.

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

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