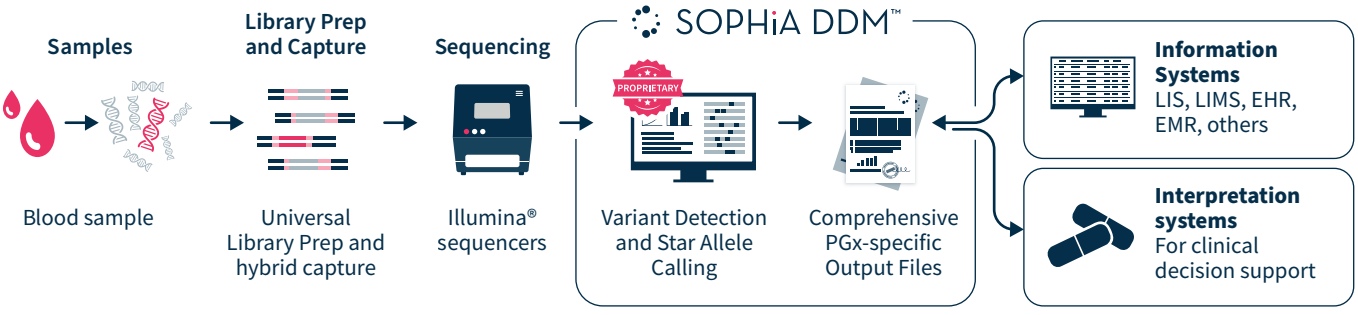
SOPHiA GENETICS™

SOPHiA DDM™ for Pharmacogenomics

Guided by the stars, advancing precision medicine

Designed by leading pharmacogenomics experts, our end-to-end NGS workflows get you from sample to insights in as little as **2 days**[1]. Powered by the new generation SOPHiA DDM™ Platform, the targeted applications feature advanced **star allele calling**, a ***CYP2D6/CYP2D7* gene conversion** module, and compatibility with downstream **interpretation systems** for streamlining clinical decision support.

STREAMLINED SAMPLE-TO-REPORT WORKFLOW



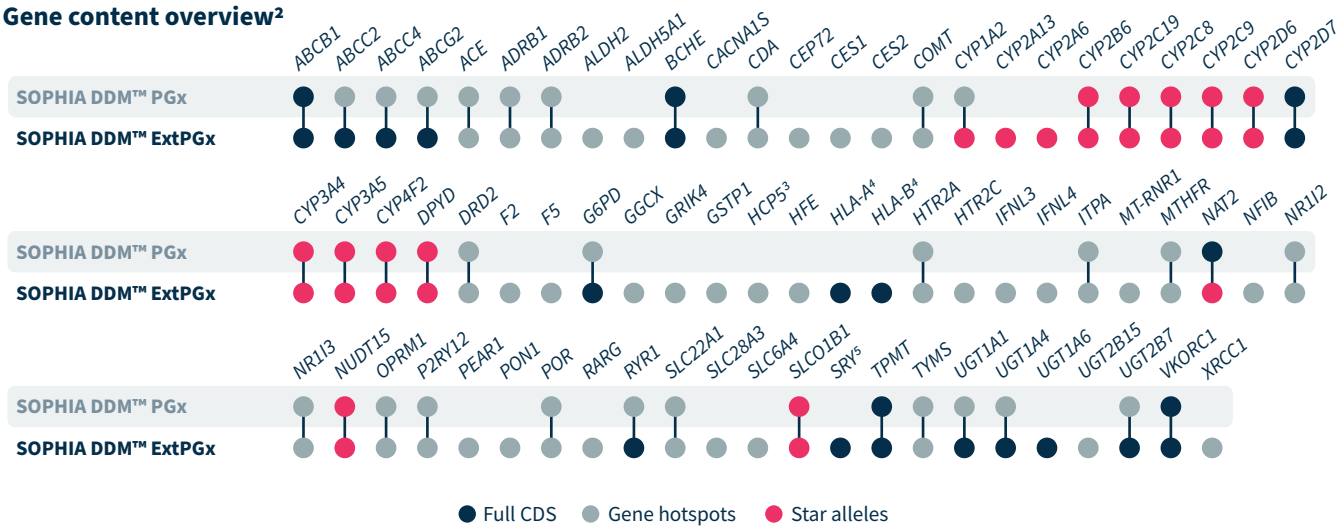
Ready-to-sequence libraries in **only 1.5 days** | **Automation scripts** available | High **multiplexing capability** | Rapid in-house adoption with the **SOPHiA DDM™ MaxCare Program**

APPLICATION OVERVIEW

For targeted PGx profiling:
SOPHiA DDM™ Community Pharmacogenomics (PGx) Solution
42 genes

For comprehensive PGx analysis:
SOPHiA DDM™ Community Extended Pharmacogenomics (ExtPGx) Solution
74 genes with *HLA* and mtDNA coverage

Gene content overview[2]



1. For indicative purposes only; actual duration may be subject to change depending on the number of samples, server load, and other technical limitations. 2. Some genes have additional promoter/UTR and intron coverage. 3. Refers to both *HCP5* and *PSORS1C1*. 4. High resolution *HLA* genotyping will become available later in the year. 5. *SRY* is a control gene, not clinically relevant in the context of pharmacogenomics.

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Genique Lifesciences™
contact@genique.co | +91 124-426-3051

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ADVANCED ANALYTICAL PERFORMANCE

100% consistency with ground-truth on *CYP2D6* star-allele calling[6]

100% sensitivity and specificity[7]

Efficient star allele calling enabled for core PharmVar genes with STAR ANISE

Accurate CNV detection with MUSKAT™ technology

DEDICATED FEATURES

STAR ALLELE INTERFACE
Clear, simplified visualization for faster review of complex variants

- **COMPREHENSIVE OUTPUT**
  Includes star-allele report (.pdf or .text) with phenotypic annotations
- **SEAMLESS INTERPRETATION**
  Compatible with leading clinical decision support and prescribing systems[8]



SPECIFICATIONS

	SOPHiA DDM™ Community Pharmacogenomics (PGx) Solution	SOPHiA DDM™ Community Extended Pharmacogenomics (ExtPGx) Solution
Research applications	Oncology, cardiovascular diseases, psychiatric disorders, pain management, infectious diseases, epilepsy, gastrointestinal diseases	
Gene content	**42** genes including a pseudogene	**74** genes including a pseudogene, *HLA* and mtDNA coverage
Variants called	SNVs, Indels, CNVs, Star alleles - **11 genes**, *CYP2D6/CYP2D7* gene conversion	SNVs, Indels, CNVs, Star alleles - **15 genes**, *CYP2D6/CYP2D7* gene conversion
Sample type	Blood	Blood
Starting material	50 ng	50 ng
Reads per sample	2 million	4 million
Panel size	77 kb	260 kb
Multiplexing guidelines (samples per run)[9]	• **8 and 24** for Illumina MiniSeq™ Mid- and High-Output Kits • **16 and 24** for Illumina MiSeq® v2 and v3 • **96 and 384** for Illumina NextSeq® 550 Mid- and High-Output Kits	• **12, 24, and 48** for Illumina Miseq™ i100 25M, 50M, and 100M flowcell • **12** for Illumina MiSeq® v3 • **48 and 192** for Illumina NextSeq™ 500/550 Mid and High Output Kits • **48, 192, 576, and 864** for Illumina NextSeq™ 1000/2000 P1, P2, P3, and P4
Library prep and capture hands-on time + **FASTQ analysis time**	5 hours + **2 hours**	5 hours + **3 hours**
Product code	CS2532ILLRGLY10	CS2587ILLRGLY10

6. Data from 63 Coriell samples. The ground-truth is from the GeT-RM Program, U.S. CDC (https://www.cdc.gov/lab-quality/php/get-rm/) excluding reverse-hybrid. 7. Observed analytical performance excluding star allele calling and the *CYP2D6* analytical module. Analytical performance metrics were calculated from 2 runs with 12 samples on an Illumina MiSeq® instrument, and 3 runs with 12 samples on an Illumina MiniSeq™ instrument using the SOPHiA DDM™ Community Pharmacogenomics Solution. 8. For more information on compatible systems, please contact your local Sales Representative. 9. When working with more than 100 Gb or 96 samples, data upload to SOPHiA DDM™ is via the Command Line Interface (CLI) Tool.

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