

**PHARMACOGENOMICS
COMMUNITY PANEL**

Designed in collaboration with pharmacogenomics experts at **RNPGX**

RESEAU FRANCOPHONE DE PHARMACOGENETIQUE

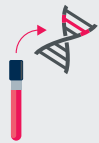
HIGHLIGHTS

- Uniform coverage of target coding and non-coding regions and hotspots
- High quality probe design to optimize on-target rate
- Customizable gene content developed with experts in Pharmacogenomics
- *CYP2D6*-specific analytical module
- Pharmacogenomics-specific output files with genotype status
- Star allele calling in 11 genes according to PharmVar nomenclature

Designing, creating, and testing a new gene panel takes considerable time and effort. The **SOPHiA GENETICS™ Community Panel for Pharmacogenomics** is a **targeted, capture-based NGS panel** developed and tested in collaboration with RNPGx (Réseau Francophone de Pharmacogénétique) to minimize set-up challenges and accelerate your research. This panel covers a wide range of genes related to Pharmacogenomics¹ and is fully customizable, with the flexibility to add or remove genes to meet your unique requirements.

The analytical capabilities of the SOPHiA DDM™ Platform enable you to gain accurate and cost-effective insights from your target regions of interest.

EXTRACTED DNA



CAPTURE-BASED LIBRARY PREPARATION



SEQUENCING



ANALYSIS AND STAR ALLELE CALLING



STAR ALLELE AND SNP STATUS REPORT GENERATION



41 genes covered

△ Full gene □ Gene hotspots ○ CNVs ☆ Star alleles ◻ Promoters/UTRs

<i>ABCB1</i>	△ ○ ◻	<i>CYP1A2</i>	□ ○	<i>DRD2</i>	□ ○	<i>P2RY12</i>	□ ○
<i>ABCC2</i>	□ ○	<i>CYP2B6</i>	□ ○ ☆	<i>G6PD</i>	□ ○	<i>POR</i>	□ ○
<i>ABCC4</i>	□ ○	<i>CYP2C19</i>	□ ○ ☆	<i>HTR2A</i>	□ ○	<i>RYR1</i>	□ ○
<i>ABCG2</i>	□ ○ ◻	<i>CYP2C8</i>	□ ○ ☆	<i>ITPA</i>	□ ○	<i>SLC22A1</i>	□ ○
<i>ACE</i>	□ ○	<i>CYP2C9</i>	□ ○ ☆	<i>MTHFR</i>	□ ○	<i>SLCO1B1</i>	□ ○ ☆
<i>ADRB1</i>	□ ○	<i>CYP2D6</i>	△ ○ ☆ ◻	<i>NAT2</i>	△ ○	<i>TPMT</i>	△ ○
<i>ADRB2</i>	□ ○	<i>CYP3A4</i>	□ ○ ☆	<i>NR1I2</i>	□ ○	<i>TYMS</i>	□ ○
<i>BCHE</i>	△ ○	<i>CYP3A5</i>	□ ○ ☆	<i>NR1I3</i>	□ ○	<i>UGT1A1</i>	□ ○ ◻
<i>CDA</i>	□ ○	<i>CYP4F2</i>	□ ○ ☆	<i>NUDT15</i>	△ ○ ☆	<i>UGT1A4</i>	□ ○ ◻
<i>COMT</i>	□ ○	<i>DPYD</i>	△ ○ ☆	<i>OPRM1</i>	□ ○	<i>UGT2B7</i>	□ ○
						<i>VKORC1</i>	△ ○ ◻

Panel size: 77 kb. Pipelines available for: NextSeq®, MiSeq®, and MiniSeq™
Product code: CS2532ILLRGLY10

Want to know more? Contact us at: info@sophiagenetics.com

Where others see data, we see answers.

¹ Picard N, et al; French National Network of Pharmacogenetics (RNPGx). Therapie. 2017 Apr;72(2):185-192.