## SOPHIA GENETICS

SOPHiA DDM<sup>™</sup> Hereditary Cancer Solution (HCS) v2.0 Confidently assess genetic variants predisposing to cancer

The **SOPHiA DDM<sup>™</sup> HCS v2.0** is a capture-based NGS application that characterizes challenging variants associated with hereditary cancers. It enables researchers to accelerate their research in-house with high-quality content and the advanced analytical features of the SOPHiA DDM<sup>™</sup> Platform.

## Highlights

- Includes guideline-driven content targeting coding and non-coding regions in 83 biologically actionable genes.
- Contains hg38-based analytics, built-in sample check ID, and selected UTRs and promoter regions.
- Detects SNVs, Indels and CNVs, and more complex variants such as *Alu* insertions, Boland Inversion and *PMS2/PMS2CL* gene conversion.
- ✓ Improves laboratory logistics and resource management with SOPHiA GENETICS™ Universal Library Prep<sup>a</sup>.



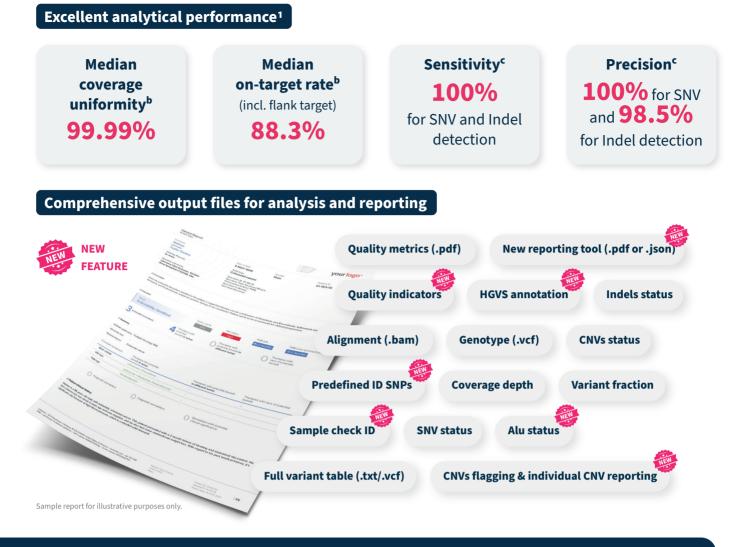
Guideline-driven content covers 83 biologically actionable genes 🛆 Full gene 🗆 Gene hotspots 🔿 CNVs 😭 Promoters/UTRs

415		001/1101				544.50		221		0.011//	
AIP	$\triangle \circ$	CDKN2A	$\Delta \Box \circ$	MDH2	$\triangle \circ$	PALB2	$\triangle \circ$	RB1		SPINK1	
APC	△□○☆	CHEK2	$\Delta \Box \circ$	MEN1	$\Delta \Box O$	PDGFRA	<b>△</b> ○	RET	<b>∆</b> 0	STK11	Δ O
ATM		CTNNA1	<b>△</b> ○	MET	<b>△ ○</b>	РІКЗСА	<b>△</b> ○	RNF43	<b>△</b> 0	SUFU	<b>△</b> ○
AXIN2	<b>△</b> O	DICER1		MITF	<b>△ ○</b>	PMS2		SDHA	<b>△</b> 0	TERC	$\Delta \Box O$
BAP1	<b>△</b> 0	DLST	<u>Δ</u> 0	MLH1	△□○☆	PMS2CL*	0	SDHAF2	Δ O	TERT	△□○☆
BARD1	<b>△</b> 0	EPCAM	<u>Δ</u> 0	MLH3	<b>△</b> 0	POLD1	<b>△</b> 0	SDHB	<b>△</b> 0	TGFBR2	<b>△</b> ○
BMPR1A		FAM175A	<u>∆</u> 0 ☆	MSH2	$\Delta \Box O$	POLE	<b>△</b> 0	SDHC	<b>∆</b> 0	TMEM127	✓ △ ○
BRCA1	△□○☆	FH	<u>Δ</u> 0	MSH3	<b>△</b> 0	POT1	<b>△</b> 0	SDHD	Δ O	TP53	$\Delta \Box O$
BRCA2	△□○☆	FLCN		MSH6	<b>△</b> 0	PRKAR1A		SEC23B	Δ O	TSC1	$\Delta \Box O$
BRIP1		GREM1	<u>∆</u> 0 ☆	МИТҮН	<b>△</b> 0	PRSS1	<b>△</b> 0	SLC25A11	<b>△</b> 0	TSC2	$\Delta \Box \circ$
CDC73	<b>∆</b> 0	HOXB13	<u>Δ</u> Ο	NBN	<b>△ ○</b>	PTCH1	<b>△</b> 0	SMAD4	<b>△</b> 0	VHL	$\Delta \Box O$
CDH1	<b>∆</b> 0	KIT	<u>Δ</u> 0	NF1	$\Delta \Box O$	PTEN	<b>△</b> 0 ☆	SMARCA4	<b>∆</b> 0	WRN	<b>△</b> 0
CDK4	<b>∆</b> 0	LZTR1		NF2	<b>△ ○</b>	RAD51C	<b>△</b> 0	SMARCB1		WT1	<b>△</b> ○
CDKN1B		MAX	<b>△</b> 0	NTHL1	△□○☆	RAD51D	<b>△</b> 0	SMARCE1	<b>∆</b> 0		

\*pseudogene.



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The SOPHiA DDM<sup>™</sup> HCS v2.0 has comprehensive, guideline-driven content that ensures we're obtaining the most relevant insights from genomic data. The expanded capabilities available on the SOPHiA DDM<sup>™</sup> Platform, including built-in sample check ID and HGVS annotation, makes it the optimal solution for timely, in-house results on complex mutational analysis.

**Unimore** | Modena, Italy



Specifications Covered diseases	Breast, ovarian, endometrial, prostate, abdominal, endocrine and neuroendocrine,					
Input amount	nervous, renal, and skin cancers 50 ng DNA					
Multiplexing for > 250x coverage depth	<ul> <li>16 for Illumina MiSeq<sup>®</sup> v3 (2x200bp), 8-12 for v2 (2x150bp)</li> <li>48 for Illumina NextSeq<sup>®</sup> 2000 P1, 192 for P2</li> <li>72 for Illumina NextSeq<sup>®</sup> 500/550 mid-output, 192 for high-output</li> <li>96* for MGI DNBSEQ-G400, FCL, 1 lane of 4 (2x200)</li> <li>*theoretical estimated maximum number of samples to be multiplexed, assuming 900 million reads per lane, and considering available kit size</li> </ul>					
Automation scripts	*theoretical estimated maximum number of samples to be multiplexed, assuming 900 million reads per lane, and considering availab					

## Want to know more?

SOPHiA DDM<sup>™</sup> Hereditary Cancer Solution (HCS) v2.0 is for research use only – not for use in diagnostic procedures. <sup>a</sup>Available for Research Use Only SOPHiA DDM<sup>™</sup> Oncology and Rare and Inherited Disease applications. <sup>b</sup>Based

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on analysis of 16 blood samples using Illumina NextSeq<sup>®</sup> 550 sequencer. <sup>c</sup>Based on analysis of 17 blood samples using Illumina NextSeq<sup>®</sup> 550 sequencer. <sup>1</sup>Data on File. CNV, copy number variation; HGVS, human genome variant society; NGS, next generation sequencing; SNV, single nucleotide variant. © 2023 SOPHiA GENETICS<sup>™</sup>. All rights reserved. All product and company names are trademarks<sup>™</sup> or registered<sup>®</sup> trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.



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