









- ✓ **Reliable:** CNV detection with robust quality checks
- ✓ **Comprehensive:** 584 probes targeting 28 clinically relevant oncogenes
- ✓ **Efficient:** decreased sample turnaround time by reducing SALSA® MLPA® runs
- ✓ **Specific:** CNV certainty with reduced incidental findings

SALSA® digitalMLPA™ Probemix D001 Hereditary Cancer Panel 1 can detect copy number variation (CNV) in 28 clinically relevant oncogenes. CNVs in these genes are associated with hereditary predisposition to one or more of the following cancer types: breast, ovarian, colorectal, gastric, prostate, pancreatic, endometrial, and melanoma.

							
Breast	Ovarian	Colorectal	Gastric	Prostate	Pancreatic	Endometrial	Melanoma
ATM	BRCA1	APC	APC	BRCA1	BRCA1	EPCAM	BAP1
BRCA1	BRCA2	BMPR1A	BMPR1A	BRCA2	BRCA2	MLH1	CDKN2A
BRCA2	BRIP1	CHEK2	CDH1	CHEK2	CDKN2A	MSH2	CDK4
BARD1	EPCAM	EPCAM	EPCAM	STK11	TP53	MSH6	MITF*
CDH1	MLH1	MLH1	MLH1	TP53		PMS2	TP53
CHEK2	MSH2	MSH2	MSH2			PTEN	
NBN	MSH6	MSH6	MSH6			STK11	
PALB2	PMS2	MUTYH	MUTYH			TP53	
PTEN	RAD51C	PMS2	PMS2				
STK11	RAD51D	POLE	SMAD4				
TP53	STK11	SMAD4	STK11				
	TP53	SCG5/GREM1	TP53				
		STK11					
		TP53					



D001 Hereditary Cancer Panel 1 is the perfect time-saving complement to NGS sequencing. SALSA® digitalMLPA™ ensures a higher level of confidence in CNV calling than using NGS alone, and allows for multiplexing as digitalMLPA reactions and NGS libraries can be run on the same flow cell.

Analysis is done using free, easy-to-use software – so no bioinformatic skills are needed.

* One *MITF* probe included; specific for p.E318K mutation.

D001 Hereditary Cancer Panel 1 Targets

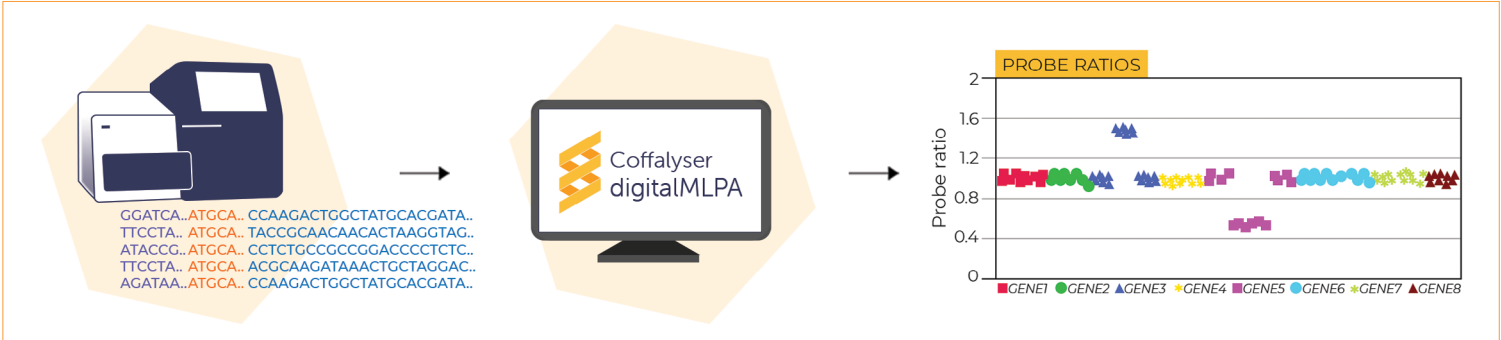
Besides CNV detection, D001 Hereditary Cancer Panel 1 also allows for the detection of 4 common mutations in clinically relevant oncogenes.

Targeted genes for CNV			
APC	BRIP1	MSH2	PTEN
ATM	CDH1	MSH6	RAD51C
BAP1	CDK4	MUTYH	RAD51D
BARD1	CDKN2A	NBN	SCG5/GREM1
BMPRI1A	CHEK2	PALB2	SMAD4
BRCA1	EPCAM	PMS2	STK11
BRCA2	MLH1	POLE	TP53

Targeted mutations	
Gene	Variant
CHEK2	c.1100delC
MITF	p.E318K
MSH2	10 Mb inversion
PMS2	Intron 7 SVA element insertion

Coffalyser digitalMLPA™ Data analysis software for clear CNV calling

- ✓ **Simple:** FASTQ files are directly loaded into the software
- ✓ **Smart:** automatic digitalMLPA read and probemix recognition
- ✓ **Reliable:** extensively tested and validated
- ✓ **Safe:** thorough built-in quality control



Coffalyser digitalMLPA™ is free and easy-to-use software developed by MRC Holland and built specifically for the analysis of digitalMLPA data. The software automatically recognises and extracts digitalMLPA sequence reads from FASTQ files. This is followed by advanced data quality checks, and the return of a clear report displaying all detected aberrant regions.