Multiplicom
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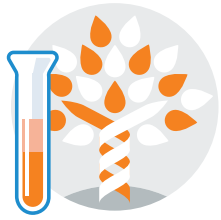
BRCA Hereditary Cancer MASTR Plus

MASTR Reporter

The BRCA Hereditary Cancer (HC) MASTR Plus in combination with the MASTR Reporter BRCA HC MASTR Plus application, is a complete research solution (NGS library preparation assay, analysis tool and quality control), for the identification of variants in 25 genes and the 3'UTR of *EPCAM* associated with hereditary breast, ovarian and other related cancers.



Research application

- For the detection of variants (SNVs, small indels) and CNVs, in 26 (25 genes plus the 3'UTR of *EPCAM*) cancer predisposition associated genes on blood-derived DNA using Illumina MiSeq

Assay characteristics

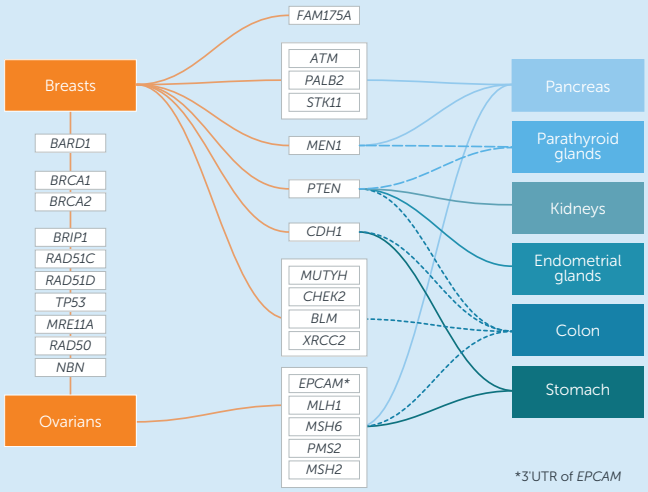
Genes	*BRCA1, BRCA2, PALB2, CHEK2, BARD1, BRIP1, RAD51C, RAD51D, TP53, MRE11A, RAD50, NBN, FAM175A, ATM, STK11, MEN1, PTEN, CDH1, MUTYH, BLM, XRCC2, MLH1, MSH6, PMS2* and *MSH2*, and the *3' UTR of EPCAM*
Genomic region analyzed	140.5 kb
Number of amplicons	561
Amplicon length	232-430 bp
Number of plexes	5
Verified with NGS System	MiSeq V3
Designed to be compatible with	MiSeq
Compatible analysis options*	MASTR Reporter BRCA HC MASTR Plus application

**Also compatible with analysis tools Sophia DDM and JSI SeqNext*

Performance

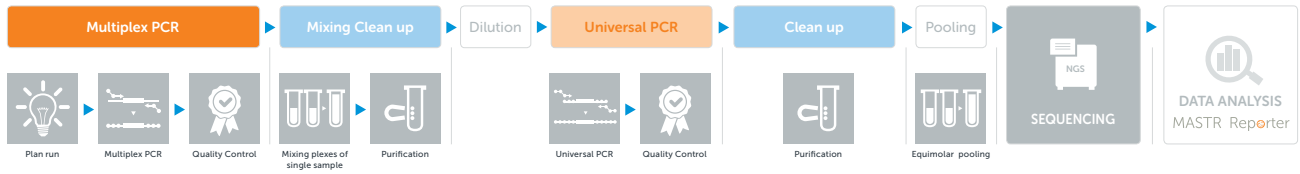
Uniformity of amplification (0.2x mean coverage)	96.7 %
On target read count	98.6 %
DNA input	as low as 20 ng per plex
Number of samples/run	Illumina MiSeq V3: 93

Disease-associated genes

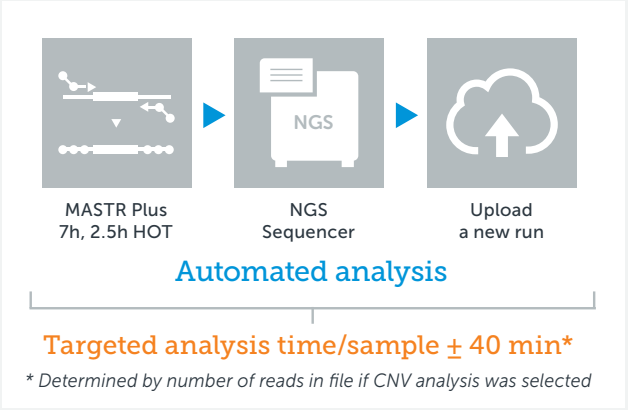


**3' UTR of EPCAM only*

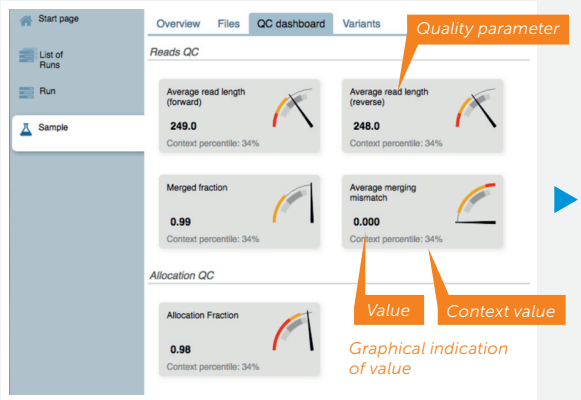
Workflow



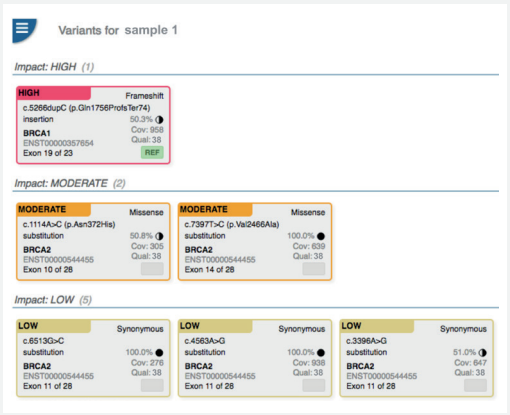
Workflow



Quality control



Variant calling



Read pile-up views

Order info

Cat. No.	Product Name	Samples
MR-1320.024	*BRCA Hereditary Cancer MASTR Plus + MASTR Reporter* *BRCA Hereditary Cancer MASTR Plus*	*24*

MID (Molecular Identifiers) kits are necessary to complete the workflow.

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Multiplicom N.V. [a] Galileïlaan 18, B-2845 Niel, Belgium [w] www.agilent.com [e] mtp.customerservice@agilent.com [t] +32 3 289 14 00 [f] +32 3 400 23 16