# BRCA Hereditary Cancer MASTR Plus

**Research Application**

- For the detection of germline variants (SNVs, small indels) and CNVs, in 26 (25 genes plus the 3'UTR of *EPCAM*) disease-associated genes on blood-derived DNA .

BRCA Hereditary Cancer (HC) MASTR Plus is a disease research panel for the identification of variants in 25 genes and in the 3'UTR of *EPCAM* associated with hereditary breast, ovarian and other related cancers.

| **Assay Characteristics** | |
|---|---|
| Genes analyzed | *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 | Illumina MiSeq V3 |
| Designed to be compatible with | Illumina MiSeq |
| Compatible analysis options | MASTR Reporter for BRCA HC Plus application |

| **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 |

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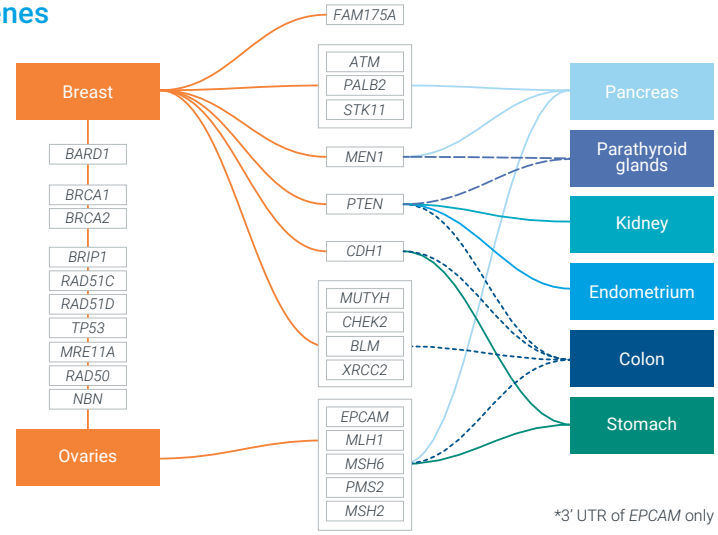
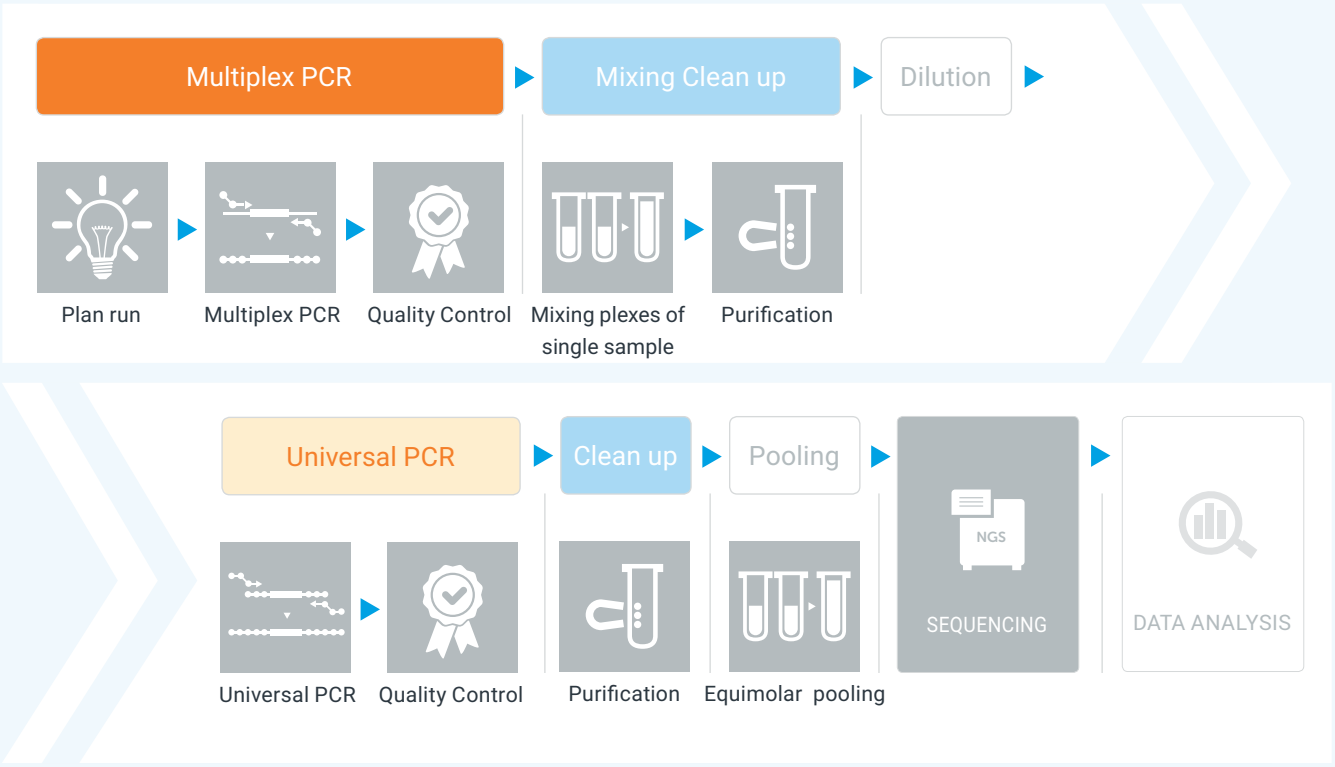
## Disease-associated Genes




## MASTR Plus Workflow




## Ordering Information

| Cat. No. | Product Name | Samples |
|---|---|---|
| MR-0320.024 | BRCA Hereditary Cancer MASTR Plus | 24 |

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

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**For Research Use Only. Not for use in diagnostic procedures.**

This information is subject to change without notice.

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