

Somatic MASTR Research Assays

Simple, fast and robust Next-Generation Sequencing assays for accurate identification and profiling of variants in targeted genes associated with cancer

MASTR Technology for Somatic Mutations Profiling

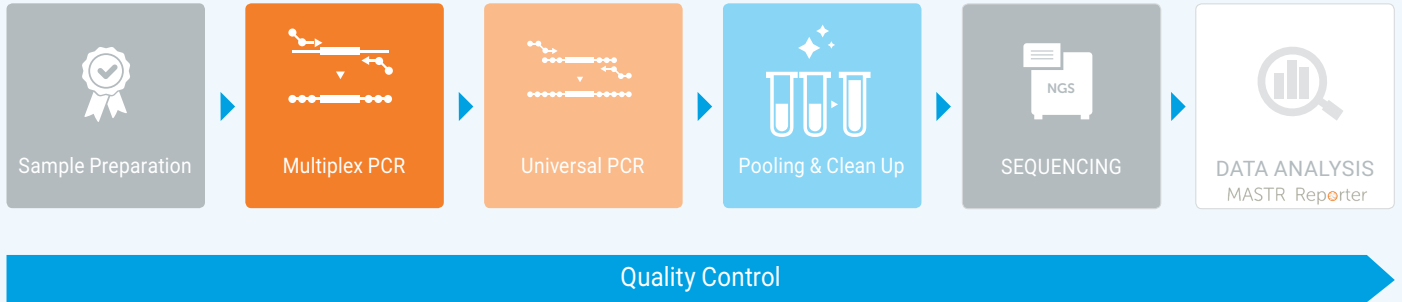
Somatic MASTR are molecular research assays, based on multiplex amplification technology, for the identification of variants associated with most human related cancers with Next-Generation Sequencing (NGS). Advances in NGS technologies enable simultaneous sequencing of different cancer-related genes from tumors.

The Somatic MASTR research assays are ready-to-use with minimum hands-on time for variant analysis from biopsy tissue, such as formalin-fixed paraffin-embedded (FFPE) samples.

Agilent Technologies has developed the following collection of simple, targeted somatic gene research panels to facilitate fast and accurate variant detection from tumors in key targeted genes associated with breast & ovarian, colon, lung, prostate and skin cancer.

Tumor Types	Cat. No.	Product Name	Genomic Target	Contents	Samples
Gastrointestinal	MR-0150.024	GIST MASTR	<i>KIT</i> exons 9,11,13,14,15,16,17 <i>PDGFRA</i> exons 8,10,12,14,18 hotspots (SNV) (17 amplicons)	2 PCR mixes, Taq, AR1	24
Lymphatic	MR-0300.024	CLL MASTR Plus	<i>TP53</i> , <i>BIRC3</i> , <i>NOTCH1</i> , <i>SF3B1</i> , <i>MYD88</i> , <i>FBXW7</i> , <i>ATM</i> , <i>POT1</i> , <i>XPO1</i> full exon coverage (SNV, CNA) (251 amplicons)	6 PCR mixes, Taq, AR3	24
Lung	MR-0130.024	EGFR 18-21 MASTR	<i>EGFR</i> exons 18 - 21 hotspots (SNV) (4 amplicons)	1 PCR mix, Taq, AR1	24
Gastrointestinal, glioblastomas, colon, lung, breast, ovarian, endometrial, and other cancers	MR-0200.024	Tumor Hotspot MASTR Plus	26 cancer related genes hotspots (SNV) (252 amplicons)	4 PCR mixes, Taq, AR1	24
Pan cancer	MR-0160.024	TP53 MASTR	full exon coverage (SNV) (17 amplicons)	2 PCR Mixes, Taq, AR2	24

Workflow



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genomics@agilent.com

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