

The GIST MASTR is a somatic molecular research assay for the identification of SNVs in 2 selected genes associated with Gastrointestinal stromal tumors (GISTs). This ready-to-use assay offers robust performance with minimum hands-on time and is compatible with all current Next-Generation Sequencing (NGS) systems.



Research application

- For the detection of variants (SNVs) in *KIT* (exons 9, 11, 13, 14, 15, 16, 17) & *PDGFRA* (exons 8, 10, 12, 14, 18) associated with GISTs.

Assay characteristics

Genes	<i>KIT</i> (exons 9, 11, 13, 14, 15, 16, 17) & <i>PDGFRA</i> (exons 8, 10, 12, 14, 18)
Genomic region analyzed	2 kb
Number of amplicons	17
Amplicon length	176 - 250 bp
Number of plexes	2
Verified with NGS System	Illumina MiSeq System
Designed to be compatible with	Illumina NGS and Ion PGM systems

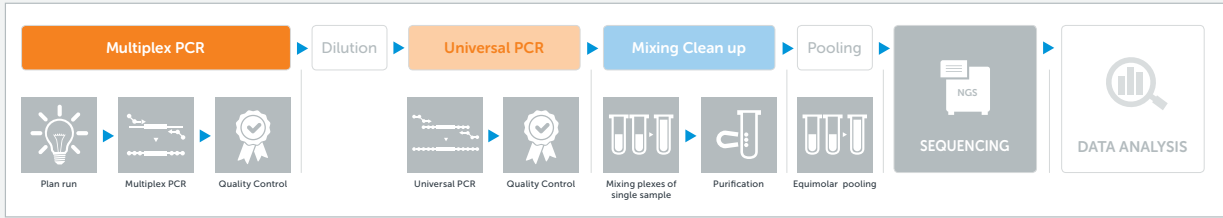
Performance Characteristics

Uniformity of amplification (0.2 x mean coverage):	<i>blood-derived DNA</i> : 100 % <i>FFPE-derived DNA</i> : 95.7 %
DNA input	as low as 20 ng per plex
Number of samples/run** (20 reads/allele):	@5 % VAF: Illumina MiSeq v2: 351* @5 % VAF: Illumina MiSeq v3: 643*

* only 192 MID combinations available.

** Number of samples per run for Illumina & IonTorrent NGS Systems can be calculated via the sequencing calculator.

Workflow



Order information

Cat. No.	Product Name	Reactions
MR-0150.024	GIST MASTR	24

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

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